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Hydrologic Data for Urban Studies in the Fort Worth, Texas Metropolitan Area, 1974

U.S. GEOLOGICAL SURVEY

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Prepared in cooperation with the City of Fort Worth

Hydrologic Data for Urban Studies in the Fort Worth, Texas Metropolitan Area, 1974

R. M. Slade, Jr. and J. M. Taylor

U.S. GEOLOGICAL SURVEY

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May 1976

Reproduced by the Texas Water Development Board
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Austin, TX 78701

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HYDROLOGIC DATA FOR URBAN STUDIES IN THE
FORT WORTH, TEXAS METROPOLITAN AREA

1974

By

R. M. Slade, Jr. and J. M. Taylor
U.S. Geological Survey

INTRODUCTION

Hydrologic investigations of urban areas in Texas were begun by the U.S. Geological Survey in 1954. These investigations are now in progress in several major metropolitan areas including Austin, Dallas, Dallas County, Houston, and San Antonio.

In October 1968, the Geological Survey, in cooperation with the city of Fort Worth Department of Public Works, began a program of hydrologic investigations on several small streams in Fort Worth. The investigations are designed to evaluate factors affecting floods on small streams in the metropolitan area. Studies of additional streams, one of which drains beneath the impervious area of a shopping center, were added to the program in October 1969. The objectives of the program are:

1. To determine, on the basis of historical data and hydrologic analyses, the magnitude and frequency of floods.
2. To document and define the areal extent of floods of greater than ordinary magnitude.
3. To determine the effect of urban development on flood peaks and volume.

This report is the sixth in a series of reports to be published annually for the Fort Worth area as part of a continuing program. The report presents the basic hydrologic data collected in four study areas during the 1974 water year (October 1, 1973 to September 30, 1974). The four study areas within the metropolitan area are Sycamore Creek, Sycamore Creek tributary, Dry Branch, and Little Fossil Creek (fig. 1). The Sycamore Creek tributary study area includes the highly impervious area of the Seminary South Shopping Center (fig. 1) as a subarea.

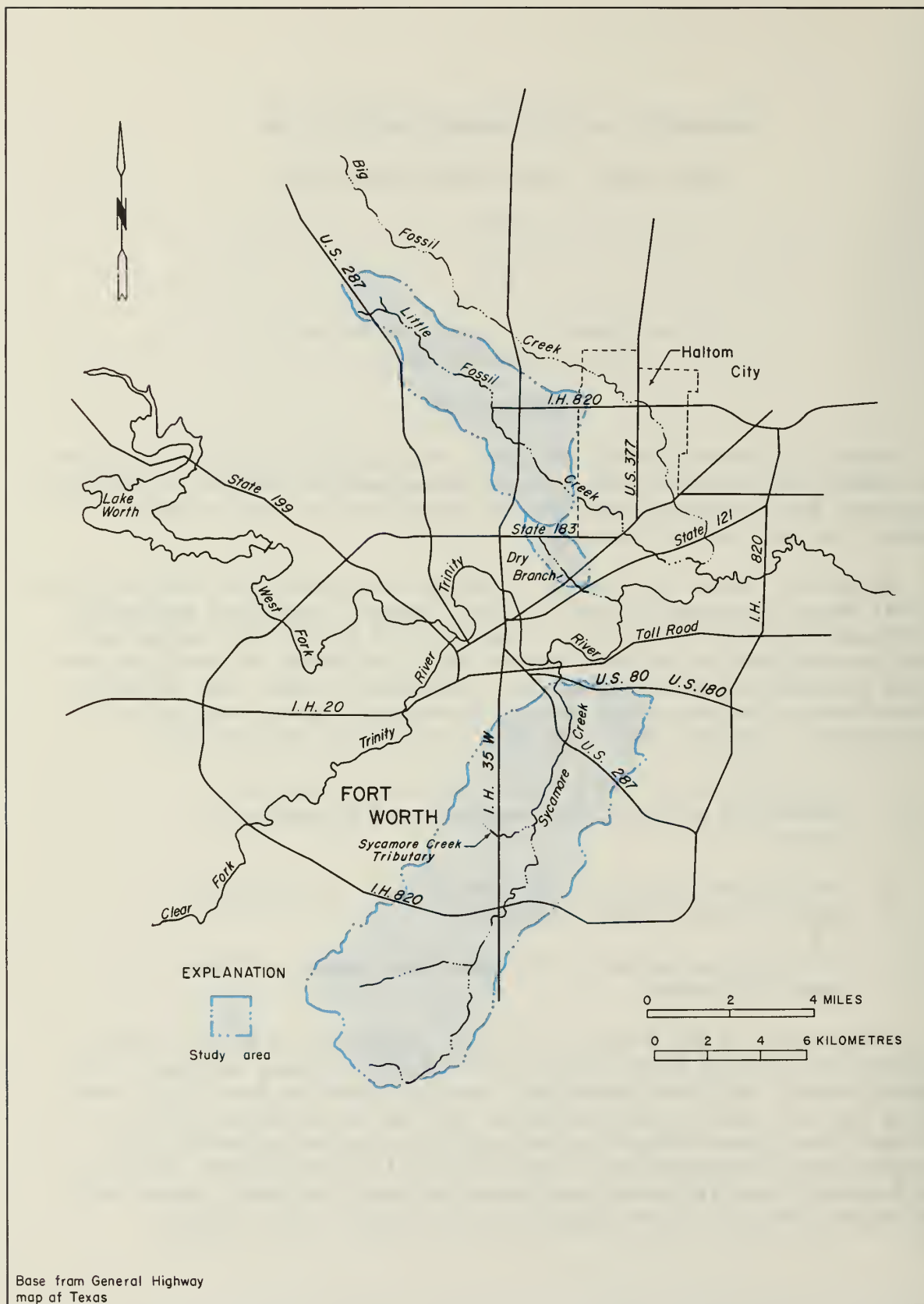


FIGURE 1.— Locations of Sycamore Creek, Sycamore Creek tributary, Dry Branch, and Little Fossil Creek study areas

To facilitate the publication and distribution of this report at the earliest feasible time, certain material has been included that does not conform to the formal publication standards of the U.S. Geological Survey.

For those readers interested in using the metric system, metric equivalents of English units of measurements are given in parentheses. The English units used in this report may be converted to metric units by using the following conversion factors:

From		Multiply by	To obtain	
Unit	Abbrevia- tion		Unit	Abbrevia- tion
inches	--	25.4	millimetres	mm
feet	--	.3048	metres	m
miles	--	1.609	kilometres	km
square miles	mi ²	2.590	square kilometres	km ²
cubic feet per second	ft ³ /s	.02832	cubic metres per second	m ³ /s
feet per mile	ft/mi	.189	metres per kilometre	m/km
acre-feet	--	1233	cubic metres	m ³
		.001233	cubic hectometres	hm ³

WATERSHED FEATURES

Sycamore Creek and Sycamore Creek Tributary Study Areas

Sycamore Creek (fig. 2) is located south and east of downtown Fort Worth in south-central Tarrant County. The headwaters originate in a rural area in the southwest section of Fort Worth. Parts of this rural area are being urbanized. The stream flows northeastwardly in an open channel and passes beneath Interstate Highway 35-W to southeast Fort Worth. The stream continues its northeasterly course through residential and light industrial sections of the near-east side of Fort Worth and on into the West Fork Trinity River. The creek decreases in altitude from approximately 840 feet (256 m) above mean sea level at the headwaters to 630 feet (192 m) at Interstate Highway 35-W, a distance of 8.2 miles (13.2 km). The creek decreases in altitude from 630 feet (192 m) at Interstate Highway 35-W to 496 feet (151 m) at U.S. Highways 80 and 180 (0.9 mile or 1.5 km upstream from West Fork Trinity River), a distance of 7.8 miles (12.6 km). The altitude at the mouth of Sycamore Creek is about 489 feet (149 m) above mean sea level.

Sycamore Creek tributary (fig. 2) is within the Sycamore Creek drainage basin. The tributary is in the south-central section of Fort Worth. The headwaters originate approximately 1.3 miles (2.1 km) west of Seminary South Shopping Center (fig. 2). A storm-water drainage system collects runoff from a residential-park area through street-gutter inlets upstream from Hemphill Street (fig. 2). The tributary flows easterly through a system of open channel and pipe-arch and box culverts. Storm water from the shopping center, two peripheral residential-commercial areas, and Interstate Highway 35-W flows into the underground drainage system.

Sycamore Creek tributary decreases in altitude from approximately 760 feet (232 m) above mean sea level at the headwaters to approximately 649 feet (198 m) at the west edge of Seminary South Shopping Center, a distance of 1.3 miles (2.1 km). At the western edge of the shopping center and at the entrance of the underground pipe-arch culvert, the altitude changes abruptly from 649 to 643 feet (198 to 196 m) in a distance of about 25 feet (8 m). The tributary then decreases in altitude from 643 feet (196 m) at the entrance to 618.7 feet (188.6 m) at the downstream side of Interstate Highway 35-W, a distance of approximately 0.7 mile (1.1 km).

- ▲ Continuous-record station
- △ Flood-profile partial-record station
- Recording rain gage
- 2 Number adjacent to station corresponds to those in table 5
- Drainage divide

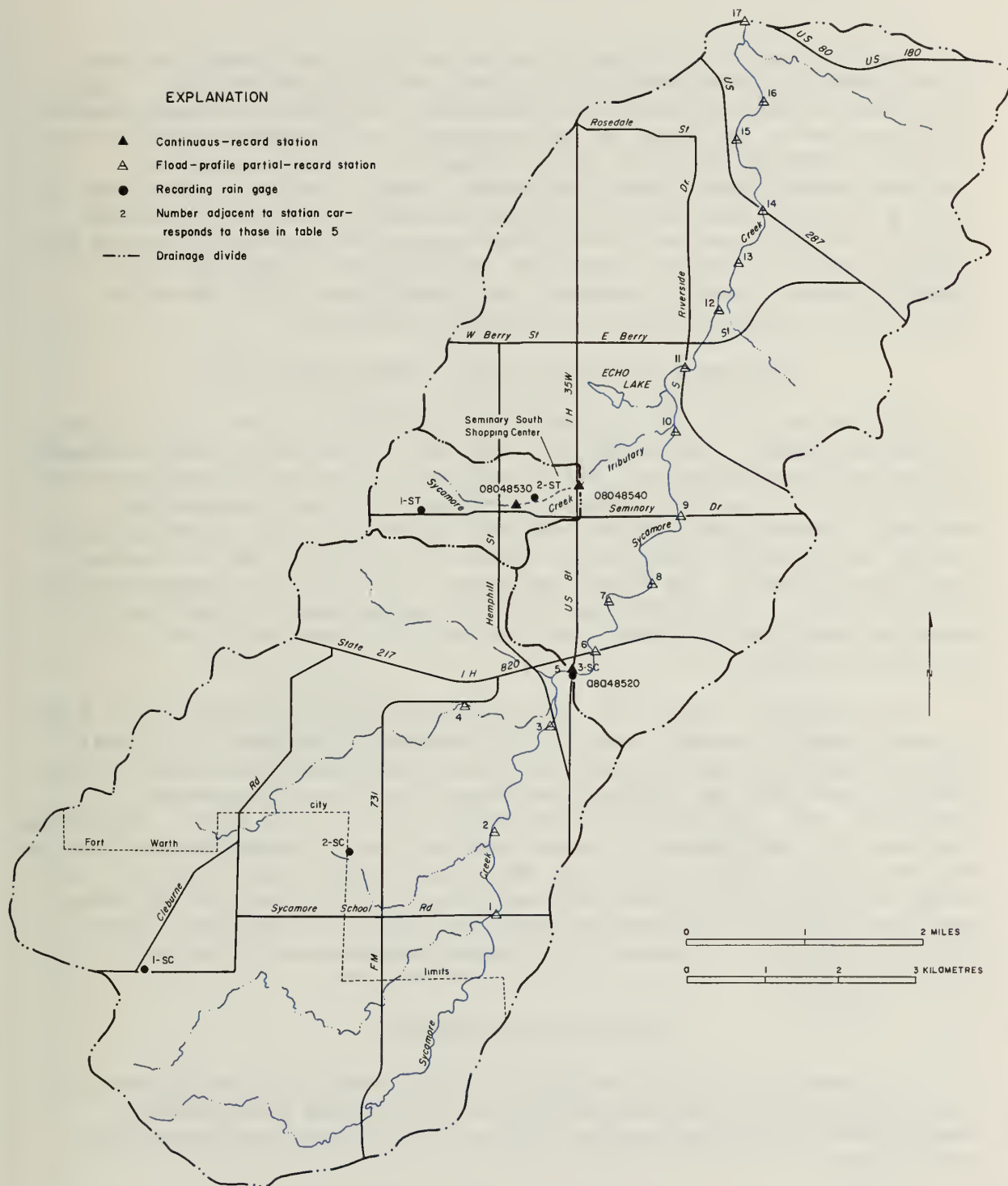


FIGURE 2.—Locations of hydrologic-instrument installations in the Sycamore Creek and Sycamore Creek tributary study areas

The Seminary South Shopping Center contains many retail business establishments, large parking areas, and one high-rise building. The flat roofs of many buildings are topped with aggregate, and considerable storage of water can occur on the rooftops. The drainage system in the center is composed of gutter inlets connected to many subsurface concrete lateral pipes; each pipe feeds a main. The mains drain into a central concrete-arch culvert beneath the center. Runoff (estimated) from the shopping center is the differences of routed runoff between the gaging stations above (No. 08048530) and below (No. 08048540) the shopping center. Monthly rainfall and runoff data of the impervious area of the shopping center are presented in table 1.

Dry Branch and Little Fossil Creek Study Areas

Dry Branch (fig. 3) is located in the northeast part of Fort Worth in Tarrant County. The headwaters originate 1.3 miles (2.1 km) northwest of the Fort Worth Refinery. The stream upstream from the refinery flows southeasterly in an open channel and through a culvert beneath the refinery. Downstream from the refinery the stream flows southeastwardly through a residential section for about 3.0 miles (4.8 km) to the West Fork Trinity River. The stream decreases in altitude from approximately 635 feet (194 m) above mean sea level at the headwaters above the Fort Worth Refinery to 538.5 feet (164.1 m) at Fain Street, a distance of 3.6 miles (5.8 km).

Little Fossil Creek (fig. 3) is located north of downtown Fort Worth in north-central Tarrant County. The headwaters originate in a rural area northwest of Saginaw, and the stream flows in an open channel southeasterly past Saginaw, through the Greater Southwest Corporation Industrial Park, and into the northeastern part of Fort Worth. The stream continues its southeasterly course from Fort Worth through Haltom City to Big Fossil Creek, and on into the West Fork Trinity River (fig. 1). The creek decreases in altitudes from approximately 810 feet (247 m) above mean sea level at the headwaters north of Saginaw to 550 feet (168 m) at Mesquite Street in northeast Fort Worth, a distance of 9.3 miles (15.0 km).

HYDROLOGIC INSTRUMENTS

Instruments to collect rainfall, runoff, and flood-profile data in the Sycamore Creek study area consist of 3 recording rain gages, 1 continuous-record stream-gaging station, and 16 flood-profile partial-record gages.

Instruments to collect rainfall and runoff data in the Sycamore Creek tributary study area consist of two recording rain gages and two continuous-record stream-gaging stations.

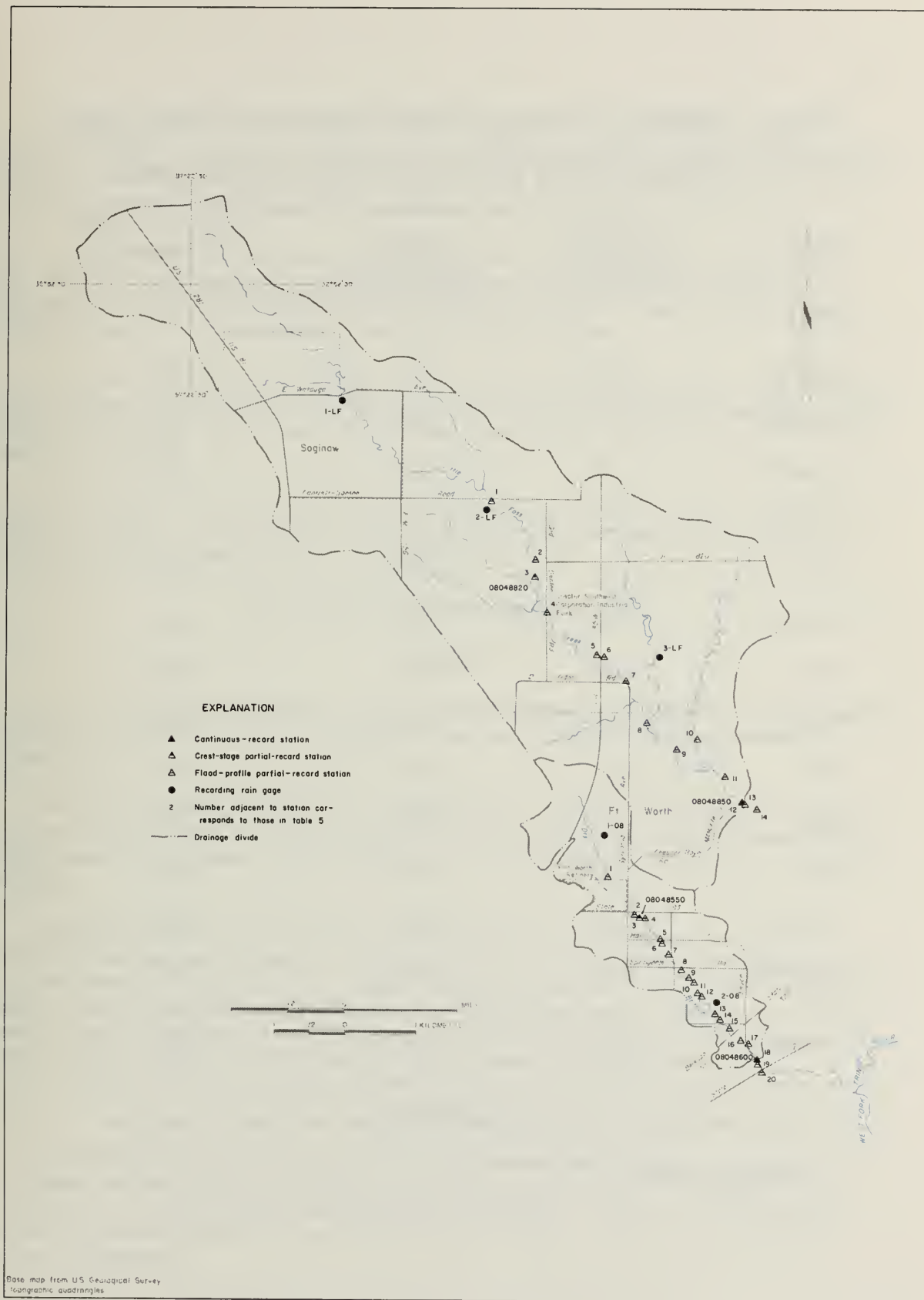


FIGURE 3.—Locations of hydrologic-instrument installations in the Dry Branch and Little Fossil Creek study areas

Table 1.--Summary of monthly rainfall-runoff relationship for
the 1974 water year for the Seminary South Shopping Center

Month	(2-ST) Rainfall (inches)	Runoff (inches) <u>1/</u>	Ratio of runoff to rainfall <u>1/</u>
<u>1973</u>			
October	5.34	3.31	0.62
November	1.52	.68	.45
December	.80	.37	.46
<u>1974</u>			
January	1.34	.69	.51
February	1.01	.49	.49
March	.40	.21	.52
April	1.40	.51	.36
May	3.17	1.53	.48
June	5.31	3.21	.60
July	.63	.38	.60
August	7.12	4.04	.57
September	4.46	2.05	.46
Totals	32.50	17.47	0.54

1/ Data unadjusted for sustained low-flow effluents from the
shopping center.

Instruments to collect rainfall, runoff, and flood-profile data in the Dry Branch study area consist of 2 recording rain gages, 1 continuous-record stream-gaging station, 1 crest-stage partial-record station, and 18 flood-profile partial-record gages.

Instruments to collect rainfall, runoff, and flood-profile data in the Little Fossil Creek study area consist of 3 recording rain gages, 1 continuous-record stream-gaging station, 1 crest-stage partial-record station, and 12 flood-profile partial-record gages.

In the Little Fossil Creek and Dry Branch basins, three supplemental crest-stage flood-profile stations are located downstream from the study areas to provide additional floodflow elevations in the vicinity of the gaging stations.

Locations of hydrologic instruments in the study areas are shown on figures 2 and 3. Pertinent individual station information is included in the section "Compilation of data".

DATA COLLECTION AND EXPLANATION

Rainfall

Ten recording rain gages distributed throughout the four study areas provide a measure of total rainfall and are used to define rainfall intensities.

In this report, rainfall is compiled on a daily basis to facilitate comparison with the National Weather Service records, comparisons among study-area rain gages, and potential use in mathematical rainfall-runoff models.

Weighted-mean rainfall for a study area is determined by the Thiessen method using gages located within a particular drainage boundary. In some areas, the Thiessen weight values are nearly equal and rainfall amounts are arithmetically averaged. Equations used to compute weighted-mean rainfall for the area above each continuous-record stream-gaging or crest-stage partial-record station are summarized in table 2.

Runoff

Runoff data are based on discharge measurements and stage records at seven stream-gaging locations and peak elevations at 46 flood-profile locations. Of the seven stream-gaging locations, five are continuous-record stream-gaging stations and two are crest-stage partial-record gaging stations.

Table 2.--Equations used to compute weighted-mean rainfall for the area above each continuous-record stream-gaging or crest-stage partial-record station

Station	USGS gage identification No.	Weighted-mean rainfall equation
Sycamore Creek at Interstate Highway 35-W	08048520	$(0.33)(1-SC) + (0.48)(2-SC) + (0.19)(3-SC)$
Sycamore Creek tributary above Seminary South Shopping Center	08048530	$(0.78)(1-ST) + (0.22)(2-ST)$
Sycamore Creek tributary at Interstate Highway 35-W	08048540	$(0.56)(1-ST) + (0.44)(2-ST)$
Seminary South Shopping Center	--	$(1.00)(2-ST)$
Dry Branch at Blandin Street	08048550	$(1.00)(1-DB)$
Dry Branch at Fain Street	08048600	$(0.50)(1-DB) + (0.50)(2-DB)$
Little Fossil Creek at Interstate Highway 820	08048820	$(0.76)(1-LF) + (0.24)(2-LF)$
Little Fossil Creek at Mesquite Street	08048850	$(0.34)(1-LF) + (0.25)(2-LF) + (0.41)(3-LF)$

Note: For locations of stations by the U.S. Geological Survey Identification Number, see figs. 2 and 3. Rain-gage designations are SC-Sycamore Creek area, ST-Sycamore Creek tributary area, DB-Dry Branch area, and LF-Little Fossil Creek area; for rain gage locations, see figs. 2 and 3.

A water-stage recorder at a continuous-record stream-gaging station records the full range in stage, which together with measurements of streamflow allows the computation of total runoff at the station.

A water-stage recorder at a crest-stage partial-record gaging station records only stages above a selected elevation, which together with measurements of streamflow allows computation of the upper part of the runoff hydrograph. These stations are located at sites where limited streamflow data collected systematically over a period of years are needed.

A crest-stage flood-profile gage, located at selected sites along the stream or on tributaries, records the peak water stage reached during the passage of a flood.

The purpose of the two continuous-record stream-gaging stations, located in the Sycamore Creek tributary basin (fig. 2), is (1) to collect hydrologic data from the residential-park area west of Seminary South Shopping Center (upstream station), and (2) to collect hydrologic data from both the residential-park area and the shopping center (downstream station). The difference in runoff between these two stations equals the runoff from the impervious area of the shopping center. Sustained low-flow occurs as a result of industrial effluents.

Information on monthly runoff (volumetric) and selected individual storm runoff from the shopping center is presented in later sections of this report. Analyses of an individual storm at the shopping center requires routing the discharge shown by the upstream hydrograph to the downstream station by using estimated travel times of 5 to 50 minutes (depending upon upstream discharge). It is assumed that little or no attenuation of upstream discharge occurs. The routed discharges are deducted from the downstream discharges; these differences equal the discharges (estimated) from the impervious area of the shopping center. Table 1 presents a summary of rainfall-runoff relationships for the current year at Seminary South Shopping Center.

SUMMARY OF DATA FOR THE 1974 WATER YEAR

Each year, storm events that will be useful in achieving the objective of the study are selected for detailed rainfall-runoff analysis. The event during which the annual maximum discharge occurs is usually included in the selection. A digital computer was used to aid in the processing of some of the individual station storm data.

During the 1974 water year, storms selected for analysis occurred on October 11, October 12-13, 1973, and June 12, 1974 in the Sycamore Creek basin; October 11, 1973, June 7, and August 10, 1974 in the Sycamore Creek tributary basin; October 12-13, 1973, August 26-27, and September 20-21, 1974 in the Dry Branch basin; October 12-13, 1973, August 26, and September 20-21, 1974 in the Little Fossil Creek basin.

Summaries of storm rainfall-runoff data for selected individual storms at streamflow stations and crest-stage partial-record stations are given in tables 3 and 4, respectively. Detailed storm rainfall and runoff records, hydrographs, and mass curves for each station are shown in the section "Compilation of data".

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-TEXAS DISTRICT

ANNUAL STORM RAINFALL-RUNOFF SUMMARY DATA

Table 3.--Storm rainfall-runoff data at streamflow stations,
1974 water year

Date of Storm	Duration (hours)	Total	Rainfall (inches)			Runoff (inches)	Ratio runoff to rainfall	Maximum discharge (ft ³ /s)
			Maximum increment					
			15-minute	30-minute	60-minute			
08048520 Sycamore Creek at Interstate Highway 35-W, Fort Worth, Tex. (Drainage area, 17.7 mi ²)								
Oct. 11, 1973	6.0	2.04	0.86	1.32	1.59	0.36	0.18	1,320
Oct. 12-13, 1973	12	1.72	.39	.62	.92	.64	.37	1,220
June 12, 1974	3.2	2.14	.81	1.45	1.62	.63	.29	1,670
08048530 Sycamore Creek tributary above Seminary South Shopping Center, Fort Worth, Tex. (Drainage area, 0.97 mi ²)								
Oct. 11, 1973	15	2.38	.95	1.44	1.77	.51	.21	349
June 7, 1974	8.5	1.71	.79	.94	.99	.24	.14	294
Aug. 10, 1974	12	1.31	.51	.78	.97	.19	.15	201

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-TEXAS DISTRICT

ANNUAL STORM RAINFALL-RUNOFF SUMMARY DATA

Table 3.--Storm rainfall-runoff data at streamflow stations,
1974 water year--Continued

Date of Storm	Duration (hours)	Total	Rainfall (inches)			Runoff (inches)	Ratio runoff to rainfall	Maximum discharge (ft ³ /s)
			Maximum increment					
			15-minute	30-minute	60-minute			
08048540 Sycamore Creek tributary at Interstate Highway 35-W, Fort Worth, Tex. (Drainage area, 1.35 mi ²)								
Oct. 11, 1973	15	2.31	0.96	1.42	1.73	0.75	0.32	776
June 7, 1974	8.5	1.78	.87	1.00	1.05	.48	.27	674
Aug. 10, 1974	12	1.30	.54	.77	.94	.27	.21	474
Seminary South Shopping Center, Fort Worth, Tex. (Drainage area, 0.38 mi ²)								
Oct. 11, 1973	7.0	2.13	1.00	1.34	1.61	1.37	.64	427
June 7, 1974	8.5	1.96	1.05	1.17	1.20	1.03	.53	380
Aug. 10, 1974	12	1.27	.58	.75	.87	.49	.39	285

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-TEXAS DISTRICT

ANNUAL STORM RAINFALL-RUNOFF SUMMARY DATA

Table 3.--Storm rainfall-runoff data at streamflow stations,
1974 water year--Continued

Date of Storm	Duration (hours)	Total	Rainfall (inches)			Runoff (inches)	Ratio runoff to rainfall	Maximum discharge (ft ³ /s)
			Maximum increment					
			15-minute	30-minute	60-minute			
08048600 Dry Branch at Fain Street, Fort Worth, Tex. (Drainage area, 2.15 mi ²)								
Oct. 12-13, 1973	18	1.91	0.20	0.39	0.73	0.63	0.33	210
Aug. 26-27, 1974	33	3.97	.80	1.12	1.79	1.14	.29	291
Sept. 20-21, 1974	13	1.90	.66	1.18	1.58	.69	.36	225
08048850 Little Fossil Creek at Mesquite Street, Fort Worth, Tex. (Drainage area, 12.3 mi ²)								
Oct. 12-13, 1973	19	1.71	.32	.62	.90	.64	.37	537
Aug. 26, 1974	15	3.71	.47	.90	1.51	.38	.10	543
Sept. 20-21, 1974	15	1.89	.71	1.15	1.64	.89	.47	1,430

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-TEXAS DISTRICT

ANNUAL STORM RAINFALL-RUNOFF SUMMARY DATA

Table 4.--Storm rainfall-runoff data at crest-stage partial-record stations,
1974 water year

Date of Storm	Duration (hours)	Total	Rainfall (inches)			Runoff (inches)	Ratio runoff to rainfall	Maximum discharge (ft ³ /s)
			Maximum increment					
			15-minute	30-minute	60-minute			
08048550 Dry Branch at Blandin Street, Fort Worth, Tex. (Drainage area, 1.08 mi ²)								
Oct. 12-13, 1973	18	1.68	0.34	0.62	0.96	0.96	0.57	264
Aug. 26, 1974	15	3.82	.78	1.09	1.75	1.48	.39	450
Sept. 20, 1974	1.3	1.60	.81	1.20	1.51	.96	.60	370
08048820 Little Fossil Creek at Interstate Highway 820, Fort Worth, Tex. (Drainage area, 5.64 mi ²)								
Oct. 12-13, 1973	19	1.83	.34	.68	1.02	.94	.51	457
Aug. 26, 1974	15	3.86	.54	1.03	1.60	.59	.15	331
Sept. 20-21, 1974	13	1.84	.88	1.50	1.72	.88	.48	914

Yearly rainfall and runoff for the 1974 water year for the study areas with continuous-record gaging stations in the Fort Worth metropolitan area are summarized in the following table:

Station	Yearly mean rainfall (inches)	Yearly runoff (inches)	Ratio of runoff to rainfall
Sycamore Creek at Inter- state Highway 35-W (08048520)	32.01	5.58	0.17
Sycamore Creek tributary above Seminary South Shopping Center (08048530)	35.20	7.86	.22
Sycamore Creek tributary at Interstate Highway 35-W (08048540)	34.44	10.56	.31
Seminary South Shopping Center	32.50	17.47	.54
Dry Branch at Fain Street (08048600)	32.56	8.70	.27
Little Fossil Creek at Mesquite Street (08048850)	32.01	5.72	.18

NOTE: See "Remarks" paragraph of station descriptions in the section "Compilation of data" for information about regulation or diversion.

Other data, including daily and monthly rainfall and daily and monthly runoff for the 1974 water year, are included in the section "Compilation of data." In addition, flood-profile data for storms during the water year are listed in table 5.

Table 5.--Peak elevation at flood-profile partial-record and continuous-record stations, 1974 water year

Map no.	Station no.	Station name and location of floodmark 1/	Drainage area (mi ²)	Distance above mouth (miles) 2/	Flood elevations				
					Oct. 11 1973	Oct. 12-13 1973	May 5 1974	Aug. 26-27 1974	Sept. 20 1974
		<u>Sycamore Creek basin</u>							
1		Sycamore Creek at Sycamore School Road-UsLb	--	11.5	691.81	--	--	691.92	--
2		Sycamore Creek near intersection of Trimble Drive Hallmark Drive (Hallmark Addition)-Lb	--	10.5	674.13	--	--	675.14	--
3		Sycamore Creek at Hemphill Street-UsRb	--	9.2	646.4	--	--	--	--
4		Sycamore Creek tributary at Sycamore Creek Road-UsLb	--	--	669.16	--	--	670.35	--
5	08048520 #	Sycamore Creek at Interstate Highway 35W-UsLb	17.7	8.7	634.61	--	--	636.52	--
6		Sycamore Creek at Interstate Highway 820-DsRb	--	8.3	628.10	--	--	629.63	--
7		Sycamore Creek at Oak Grove Road-DsLb	--	7.7	617.43	--	--	617.60	--
8		Sycamore Creek below Missouri-Pacific R.R.-1500 ft-DsLb	--	7.2	606.90	--	--	605.11	--
9		Sycamore Creek at Seminary Drive-UsRb	--	6.3	587.93	--	--	587.7	--
10		Sycamore Creek at Butler Street (extension)-225 ft-DsLb	--	5.5	571.23	--	--	571.5	--
11		Sycamore Creek at Riverside Drive-UsRb	--	4.8	562.60	--	--	--	--
12		Sycamore Creek at Clen Carden Drive-UsRb	--	4.2	554.75	--	--	554.04	--
13		Sycamore Creek in Cobb Park midway between Clen Carden Drive and U. S. Highway 287-Lb	--	3.7	544.7	--	--	--	--
14		Sycamore Creek at U. S. Highway 287-DsRb	--	3.0	533.0	--	--	537.94	--
15		Sycamore Creek at West Rosedale Street-DsRb	--	2.2	528.95	--	--	524.43	--
16		Sycamore Creek at Vickery Boulevard-UsLb	--	1.7	524.04	--	--	518.03	--
17		Sycamore Creek at Lancaster Avenue-UsLb	--	.9	507.71	--	--	--	--
		<u>Dry Branch basin</u>							
1		Dry Branch at Texas and Pacific R.R. spur-Rb	--	3.41	596.7	--	--	598.07	597.23
2		Dry Branch at Grace Street-DsLb	--	2.86	587.99	--	--	587.56	589.82
3	08048550 #	Dry Branch at Blandin Street-24 ft UsLb	1.08	2.82	587.29	--	--	586.76	589.24
4		Dry Branch at Blandin Street-DsLb	--	2.80	587.13	--	--	586.59	589.06
5		Dry Branch at Hollis Street-60ft UsRb	--	2.52	584.04	--	--	583.59	587.97
6		Dry Branch at Hollis Street-10ft DsLb	--	2.49	581.44	--	--	581.04	585.17
7		Dry Branch at Selma Street-120ft UsLb	--	2.38	579.5	--	--	580.04	585.00
8		Dry Branch at Springdale-DsRb	--	2.18	569.46	--	--	--	568.09
9		Dry Branch at Bonnie Brae-80ft UsLb	--	2.07	568.81	--	--	568.38	573.11
10		Dry Branch between Bonnie Brae and Aster Court-100ft UsRb	--	1.98	566.74	--	--	566.24	570.22
11		Dry Branch at Carnation Street-20ft UsRb	--	1.89	564.22	--	--	564.06	568.25
12		Dry Branch at Carnation Street-100ft DsLb	--	1.89	563.68	--	--	562.8	566.93
13		Dry Branch at Robinwood Street-150ft UsRb	--	1.89	558.89	--	--	563.2	560.01
14		Dry Branch between Robinwood and Yucca Streets-150ft UsLb	--	1.56	557.4	--	--	557.4	558.77
15		Dry Branch between Yucca and Belknap Streets-Rb	--	1.46	554.43	--	--	--	555.37
16		Dry Branch at Beach Street-UsLb	--	1.29	545.15	--	--	544.0	546.00
17		Dry Branch at Beach Street-DsRb	--	1.23	544.21	--	--	543.21	544.59
18	08048600 #	Dry Branch at Fain Street-UsRb	2.15	1.08	541.47	--	--	540.97	542.11
19		Dry Branch at Fain Street-DsRb	--	1.06	540.73	--	--	539.59	541.22
20		Dry Branch at State Highway 121-UsLb	--	.99	539.16	--	--	538.67	538.46
		<u>Little Fossil Creek basin</u>							
1		Little Fossil Creek at Cantrell-Samson Roads-DsLb	--	8.42	--	640.32	--	639.79	--
2		Little Fossil Creek at Interstate Highway 820-UsRb	--	7.73	--	618.41	--	617.91	618.45
3	08048820 #	Little Fossil Creek at Interstate Highway 820-DsRb	5.64	7.55	--	613.61	--	613.19	614.83
4		Little Fossil Creek at Old Denton Road-DsRb	--	7.14	--	604.79	--	605.26	606.82
5		Little Fossil Creek at Interstate Highway 35W-UsRb	--	6.35	--	--	--	592.49	593.90
6		Little Fossil Creek at Interstate Highway 35-DsLb	--	6.26	--	590.45	--	591.05	592.67
7		Little Fossil Creek at Watauga (Sylvania Avenue)-UsLb	--	5.93	--	584.54	--	585.29	--
8		Little Fossil Creek midway between Watauga Road and St. Louis Southwestern R.R.-Rb	--	5.50	--	575.9	--	--	--
9		Little Fossil Creek at St. Louis Southwestern R.R.-DsRb	--	5.12	--	569.30	--	569.35	571.23
10		Little Fossil Creek tributary at St. Louis Southwestern R.R.-DsRb	--	--	--	572.6	--	--	--
11		Little Fossil Creek at Texas & Pacific R.R.-30ft DsLb	--	4.54	--	560.4	--	559.84	--
12	08048850 #	Little Fossil Creek at Mesquite Street-Rb	12.3	4.24	--	553.90	--	554.56	556.89
13		Little Fossil Creek at Beach Street-UsRb	--	4.20	--	--	--	554.31	556.65
14		Little Fossil Creek at Beach Street-DsRb	--	4.11	--	551.72	--	552.24	553.07

Continuous record station

Crest-stage partial-record station.

1/ Legend to location of floodmark: Ds=downstream; Us=upstream; Lb=left bank; Rb=right bank.

2/ Distances above mouth in Dry Branch basin from report "Drainage Master Plan for City of Fort Worth, Public Works Department, Dry Branch Watershed", March 1967, by Knowlton-Ratliff-English, Consulting Engineers.

COMPI L A T I O N O F D A T A

TRINITY RIVER BASIN

08048520 Sycamore Creek at Interstate Highway 35-W, Fort Worth, Tex.

LOCATION.--Lat 32°39'55", long 97°19'16", Tarrant County, on left bank at upstream side of bridge on frontage road on upstream side of Interstate Highway 35-W, 5.8 miles (9.3 km) south of Fort Worth City Hall, and 8.9 miles (14.3 km) upstream from mouth.

DRAINAGE AREA.--17.7 mi² (45.8 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

AVERAGE DISCHARGE.--5 years, 8.27 ft³/s (0.234 m³/s), 6.35 in/yr (161 mm/yr), 5,990 acre-ft/yr (7.39 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,510 ft³/s (71.1 m³/s) Aug. 26 (elevation, 636.52 ft or 194.011 m); no flow at times.

Period of record: Maximum discharge, 5,450 ft³/s (154 m³/s) Oct. 19, 1971 (elevation, 639.77 ft or 195.002 m); no flow at times.

Flood of May 6, 1969, reached an elevation of 640.1 ft (195.10 m), from floodmarks (discharge, 5,800 ft³/s or 164 m³/s).

Flood in 1908 reached an elevation of 645.9 ft (196.87 m), and flood in 1938 reached an elevation of 644.4 ft (196.41 m), from information by State Highway Department.

REMARKS.--Records good. Flow is slightly affected by several small farm ponds on tributaries above station. At times, low flow may be sustained by effluents from commercial establishments. Two recording rain gages are operated in basin above this station, and one recording rain gage is located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	.19	4.7	.86	.70	2.1	1.1	.15	11	.01	0	.16	3.1				
2	.15	2.4	.86	.70	2.1	1.1	.12	3.3	.02	0	.28	.86				
3	.15	1.8	10	.70	1.5	.86	.12	.28	4.7	0	.03	.47				
4	.38	1.3	3.5	.86	1.5	.70	.08	.11	8.3	0	.02	.32				
5	.19	1.1	1.8	.86	2.4	.58	.06	158	.19	0	.01	.22				
6	6.8	.86	1.3	1.1	2.1	.70	.06	20	.04	0	2.0	.15				
7	1.2	.86	.70	.86	1.5	.58	.05	6.6	41	0	.34	.14				
8	.19	.86	.58	.86	1.5	.58	.04	2.8	6.1	0	.10	.09				
9	.15	.58	.58	.70	1.5	.58	.04	1.1	55	0	.05	2.8				
10	.08	.47	.38	8.6	1.5	.58	.05	.47	1.8	0	29	4.0				
11	174	.38	.47	3.5	1.5	3.9	15	.44	.35	0	3.2	.45				
12	128	.38	.47	1.8	1.5	1.1	1.1	.29	279	0	.26	42				
13	176	.38	.30	1.3	1.5	.58	.20	.18	22	.37	.09	9.9				
14	10	.38	.30	1.5	1.3	.58	.07	17	6.9	.07	.04	2.2				
15	8.3	.38	.30	1.3	1.3	.47	.03	22	2.1	.02	.02	1.0				
16	5.7	.30	.24	1.3	.86	.38	.02	3.2	.70	0	.01	5.0				
17	3.5	1.3	.24	1.3	.70	.30	.02	.71	.30	0	0	31				
18	2.1	13	.24	32	1.3	.30	.02	.32	.18	0	0	5.0				
19	1.8	2.1	13	78	.86	.30	.03	.17	.11	0	0	2.2				
20	1.1	42	2.4	9.0	.58	.86	.07	.11	.07	0	0	50				
21	.86	4.4	1.5	6.1	50	1.8	12	.08	.03	2.9	0	59				
22	.70	2.1	1.3	4.7	5.7	.58	6.0	.06	.01	.05	16	6.2				
23	.47	1.3	1.8	4.7	2.7	.38	.83	.05	.01	0	.73	2.9				
24	.47	6.4	1.5	5.0	1.5	1.3	.19	.04	0	0	.11	64				
25	.47	3.9	1.1	3.5	1.3	1.8	.10	.03	0	0	.10	97				
26	.38	9.3	.86	5.4	1.1	.58	.07	.62	0	0	312	14				
27	.38	2.7	.70	3.5	1.1	.58	.06	.09	0	0	43	7.1				
28	.38	1.3	.70	3.9	1.1	.58	.05	.05	0	0	6.4	4.4				
29	.24	1.1	.70	2.7	-----	.38	.04	.03	0	0	1.8	2.6				
30	47	.86	2.4	2.4	-----	.24	.10	.02	0	2.0	36	1.8				
31	14	-----	.86	2.1	-----	.19	-----	.02	-----	.10	7.2	-----				
TOTAL	585.33	108.89	51.94	190.94	93.60	24.54	36.77	249.17	428.92	5.51	458.95	419.90				
MEAN	18.9	3.63	1.68	6.16	3.34	.79	1.23	8.04	14.3	.18	14.8	14.0				
MAX	176	42	13	78	50	3.9	15	158	279	2.9	312	97				
MIN	.08	.30	.24	.70	.58	.19	.02	.02	0	0	0	.09				
CFSM	1.07	.21	.09	.35	.19	.04	.07	.45	.81	.01	.84	.79				
IN	1.23	.23	.11	.40	.20	.05	.08	.52	.90	.01	.96	.88				
AC-FT	1.160	216	103	379	186	.49	73	494	851	11	910	833				
(††)	5.49	1.58	.78	1.75	.90	.65	1.16	3.57	4.78	.42	6.93	4.00				
CAL YR 1973	TOTAL	4,550.67	MEAN	12.5	MAX	537	MIN	0	CFSM	.71	IN	9.56	AC-FT	9,030	††	40.30
YR 1974	TOTAL	2,654.46	MEAN	7.27	MAX	312	MIN	0	CFSM	.41	IN	5.58	AC-FT	5,270	††	32.01

PEAK DISCHARGE (BASE, 800 FT³/S)

DATE	TIME	ELEV.	DISCHARGE	DATE	TIME	ELEV.	DISCHARGE
10-11	0615	634.61	1,320	6-12	1000	635.25	1,670
10-12	2215	634.41	1,220	8-26	1830	636.52	2,510

†† Weighted-mean rainfall, in inches, based on three rain gages.

TRINITY RIVER BASIN

08048530 Sycamore Creek tributary above Seminary South Shopping Center, Fort Worth, Tex.

LOCATION.--Lat 32°41'08", long 97°19'44", Tarrant County, on right bank near entrance to culvert under Missouri, Kansas, and Texas Railroad, 0.2 mile (0.3 km) northeast of intersection of Hemphill Street and Seminary Drive in Fort Worth, 1.8 miles (2.9 km) upstream from mouth, and 4.5 miles (7.2 km) south of Fort Worth City Hall.

DRAINAGE AREA.--0.97 mi² (2.51 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and culvert control. Datum of gage is at mean sea level.

AVERAGE DISCHARGE.--5 years, 0.64 ft³/s (0.0181 m³/s), 8.96 in/yr (228 mm/yr), 464 acre-ft/yr (572,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 349 ft³/s (9.88 m³/s) Oct. 11 (elevation, 653.71 ft or 199.251 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Oct. 1-3, July 14-16, 19-21, Aug. 9.

Period of record: Maximum discharge, 584 ft³/s (16.5 m³/s) Oct. 19, 1971 (elevation, 655.49 ft or 199.793 m); no flow at times.

Maximum stage since 1966, about 656.0 ft (199.9 m) in August 1966 (discharge not determined), from information by local resident.

REMARKS.--Records fair above 3 ft³/s (0.085 m³/s) and poor below. Low flow is sustained by effluent from commercial establishments above station. One recording rain gage is operated in basin above station, and one is located below station in Seminary South Shopping Center. Records of precipitation and hydrologic data for selected storms are published elsewhere in basic-data reports.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.03	.16	.10	.06	.04	.03	3.6	.10	.08	.05	.16
2	.02	.03	.13	.06	.05	.04	.03	.10	.10	.06	.51	.13
3	.02	.41	1.5	.06	.03	.04	.03	.05	1.3	.05	.05	.10
4	.03	.03	.08	.08	.03	.03	.04	.03	.95	.05	.03	.10
5	.19	.03	.08	.19	.05	.05	.04	11	.06	.06	.05	.10
6	.92	.05	.05	.16	.06	.04	.04	.22	.06	.08	1.1	.10
7	.05	.05	.06	.06	.06	.03	.05	.08	6.2	.06	.05	.11
8	.05	.05	.06	.10	.06	.03	.05	.06	.19	.05	.53	.10
9	.05	.03	.06	.28	.06	.06	.06	.06	4.0	.05	.02	1.2
10	.03	.03	.06	1.4	.08	.06	.08	.06	.10	.05	4.7	.24
11	13	.03	.13	.25	.08	.25	2.4	.06	.08	.05	.10	.11
12	12	.05	.06	.22	.08	.06	.08	.05	11	.11	.06	9.1
13	3.4	.06	.05	.13	.08	.06	.08	.06	.28	.03	.05	1.2
14	.73	.05	.06	.10	.10	.06	.08	.64	.06	.02	.03	.13
15	1.1	.06	.04	.10	.08	.06	.06	.08	.05	.02	.03	.13
16	.52	.06	.04	.10	.08	.05	.05	.03	.05	.02	.03	2.4
17	.43	1.7	.05	.10	.08	.06	.10	.04	.05	.08	.03	2.0
18	.35	.19	.06	3.8	.10	.05	.05	.08	.06	.03	.03	.13
19	.31	.10	2.4	.57	.06	.06	.05	.12	.05	.02	.03	.10
20	.25	3.3	.05	.16	.06	.31	.19	.12	.05	.02	.08	5.0
21	.22	.08	.05	.13	4.6	.05	4.1	.12	.03	.02	.08	1.1
22	.22	.08	.05	.13	.10	.05	.39	.12	.03	.03	7.1	.19
23	.22	.08	.10	.35	.07	.05	.06	.15	.03	.03	.12	.13
24	.16	1.6	.08	.13	.05	.47	.05	.13	.03	.04	.08	6.7
25	.16	.08	.06	.22	.05	.05	.03	.31	.03	.05	.06	2.9
26	.16	.99	.06	.25	.05	.03	.03	.06	.05	.40	18	.47
27	.57	.08	.06	.25	.03	.03	.03	.05	.05	.08	.91	.43
28	.16	.10	.06	.10	.03	.05	.03	.05	.06	.16	.28	.28
29	.16	.13	.06	.05	-----	.03	.03	.05	.08	1.4	.05	.22
30	7.0	.16	.08	.05	-----	.03	.31	.05	.08	1.2	2.5	.22
31	.19	-----	.08	.06	-----	.03	-----	.08	-----	.05	.19	-----
TOTAL	42.69	9.72	5.92	9.74	6.32	2.31	8.65	17.71	25.26	4.45	36.93	35.28
MEAN	1.38	.32	.19	.31	.23	.075	.29	.57	.84	.14	1.19	1.18
MAX	13	3.3	2.4	3.8	4.6	.47	4.1	11	11	1.4	18	9.1
MIN	.02	.03	.04	.05	.03	.03	.03	.03	.03	.02	.02	.10
CFSM	1.42	.33	.20	.32	.24	.08	.30	.59	.87	.14	1.23	1.22
IN.	1.64	.37	.23	.37	.24	.09	.33	.68	.97	.17	1.42	1.35
AC-FT	85	19	12	19	13	4.6	17	35	50	8.8	73	70
(††)	6.32	1.58	.91	1.46	.88	.49	1.74	3.56	4.70	.78	7.63	5.14
CAL YR 1973	TOTAL 340.29	MEAN .93	MAX 31	MIN .02	CFSM .96	IN 13.05	AC-FT 675	†† 45.35				
WTR YR 1974	TOTAL 204.98	MEAN .56	MAX 18	MIN .02	CFSM .58	IN 7.86	AC-FT 407	†† 35.19				

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	ELEV.	DISCHARGE	DATE	TIME	ELEV.	DISCHARGE
10-11	0455	653.71	349	8-10	1500	652.45	201
10-12	2055	652.55	215	8-22	1415	653.20	294
10-30	1840	652.51	209	8-26	1730	653.69	346
6-7	1635	653.20	294	9-12	1345	653.50	326
6-12	0830	653.70	347				

†† Weighted-mean rainfall, in inches, based on two rain gages.

TRINITY RIVER BASIN

08048540 Sycamore Creek tributary at Interstate Highway 35-W, Fort Worth, Tex.

LOCATION.--Lat 32°41'18", long 97°19'11", Tarrant County, on left bank at culvert on downstream side of access road to Interstate Highway 35-W, 0.3 mile (0.5 km) north of Seminary Drive in Fort Worth, 1.2 miles (1.9 km) upstream from mouth, and 4.3 miles (6.9 km) south of Fort Worth City Hall.

DRAINAGE AREA.--1.35 mi² (3.50 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

AVERAGE DISCHARGE.--5 years, 1.11 ft³/s (0.0314 m³/s), 11.17 in/yr (284 mm/yr), 804 acre-ft/yr (991,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 776 ft³/s (22.0 m³/s) Oct. 11 (elevation, 625.77 ft or 190.735 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Mar. 7, 8, Aug. 15, 19.

Period of record: Maximum discharge, 1,100 ft³/s (31.2 m³/s) Oct. 19, 1971 (elevation, 628.41 ft or 191.539 m); minimum daily, 0.01 ft³/s (0.0003 m³/s) for many days.

Maximum elevation since 1969, that of Oct. 19, 1971. Flood in May 1969 reached an elevation of 627.2 ft (191.17 m), from floodmarks.

REMARKS.--Records fair except those for periods of no elevation record, which are poor. Records include runoff from a shopping center. Low flows are sustained by effluents. Two recording rain gages are operated in basin above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.05	.20	.12	.09	.06	.07	6.5	.09	.09	.18	.19
2	.10	.12	.20	.09	.10	.06	.09	.32	.15	.10	1.2	.15
3	.09	.43	2.3	.07	.08	.06	.07	.15	2.7	.10	.10	.11
4	.08	.09	.08	.07	.07	.04	.06	.15	1.4	.11	.08	.16
5	.62	.06	.08	.22	.09	.07	.09	21	.07	.18	.09	.15
6	1.5	.07	.07	.25	.09	.06	.06	.60	.06	.14	1.9	.12
7	.09	.07	.07	.13	.08	.03	.05	.23	19	.13	.12	.12
8	.07	.07	.07	.12	.08	.03	.06	.15	.25	.14	.64	.12
9	.08	.07	.09	.38	.07	.06	.07	.15	10	.14	.07	2.2
10	.07	.06	.10	2.2	.07	.09	.07	.15	.15	.10	10	.34
11	28	.06	.21	.32	.07	.52	4.2	.15	.11	.10	.13	.12
12	20	.07	.17	.29	.07	.09	.11	.12	22	.25	.07	14
13	5.6	.07	.15	.14	.07	.07	.10	.09	.31	.10	.04	1.8
14	1.0	.06	.15	.12	.13	.06	.09	1.3	.15	.09	.04	.29
15	1.6	.06	.09	.15	.06	.06	.09	.15	.15	.09	.03	.27
16	.70	.06	.06	.12	.06	.06	.10	.07	.10	.14	.06	3.8
17	.60	3.4	.06	.12	.06	.06	.14	.11	.09	.10	.06	2.4
18	.50	.41	.06	7.8	.24	.07	.10	.12	.09	.15	.05	.39
19	.40	.16	4.2	1.1	.05	.09	.09	.12	.08	.08	.03	.29
20	.30	6.1	.07	.23	.06	1.0	.42	.12	.11	.11	.12	12
21	.30	.16	.07	.15	9.1	.09	6.1	.12	.12	.12	.15	1.3
22	.30	.10	.07	.15	.12	.09	.50	.12	.11	.09	17	.35
23	.30	.10	.36	.69	.10	.07	.10	.15	.09	.16	.31	.23
24	.20	2.5	.14	.19	.07	1.2	.08	.12	.09	.18	.16	9.8
25	.20	.10	.09	.37	.07	.06	.05	.53	.09	.17	.12	3.2
26	.20	1.5	.09	.44	.07	.04	.05	.09	.10	.42	40	.82
27	.80	.10	.09	.30	.04	.04	.05	.06	.09	.11	1.0	.62
28	.20	.20	.09	.12	.04	.06	.07	.08	.09	.31	.29	.34
29	.20	.20	.09	.12	-----	.06	.09	.09	.09	1.7	.09	.29
30	12	.20	.09	.12	-----	.06	.61	.09	.09	2.5	3.8	.28
31	.30	-----	.09	.09	-----	.06	-----	.09	-----	.15	.22	-----
TOTAL	76.50	16.70	9.75	16.78	11.30	4.47	13.83	33.29	58.02	8.35	78.15	56.25
MEAN	2.47	.56	.31	.54	.40	.14	.46	1.07	1.93	.27	2.52	1.88
MAX	28	6.1	4.2	7.8	9.1	1.2	6.1	21	22	2.5	40	14
MIN	.07	.05	.06	.07	.04	.03	.05	.06	.06	.08	.03	.11
CFSM	1.83	.41	.23	.40	.30	.10	.34	.79	1.43	.20	1.87	1.39
IN.	2.11	.46	.27	.46	.31	.12	.38	.92	1.60	.23	2.15	1.55
AC-FT	152	33	19	33	22	8.9	27	66	115	17	155	112
(††)	6.05	1.56	.88	1.42	.91	.47	1.65	3.45	4.87	.74	7.49	4.95

CAL YR 1973	TOTAL	559.96	MEAN	1.53	MAX	61	MIN	.05	CFSM	1.13	IN	15.43	AC-FT	1,110	††	44.28
WTR YR 1974	TOTAL	383.39	MEAN	1.05	MAX	40	MIN	.03	CFSM	.78	IN	10.56	AC-FT	760	††	34.44

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	ELEV.	DISCHARGE	DATE	TIME	ELEV.	DISCHARGE
10-11	0500	625.77	776	6- 9	0125	622.54	388
10-12	unknown	unknown	about	6-12	0835	624.85	727
			500	8-10	1505	623.13	474
10-30	unknown	623.0	about	8-22	1420	624.74	712
			450	8-26	1735	624.45	672
4-21	1735	622.26	348	9-12	1350	623.32	503
6- 7	0920	622.11	327	9-20	2140	622.39	366
6- 7	1640	624.47	674				

†† Weighted-mean rainfall, in inches, based on two rain gages.

NOTE.--No elevation record Oct. 12 to Nov. 1, Nov. 22 to Dec. 3, Apr. 22-27.

TRINITY RIVER BASIN

08048600 Dry Branch at Fain Street, Fort Worth, Tex.

LOCATIDN.--Lat 32°46'34", long 97°17'18", Tarrant County, on right bank 30 ft (9 m) upstream from culvert on Fain Street, at intersection of Fain and Beach Streets in Fort Worth, 1.1 miles (1.8 km) upstream from mouth, and 2.9 miles (4.7 km) northeast of Tarrant County Courthouse.

DRAINAGE AREA.--2.15 mi² (5.57 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete culvert control. Datum of gage is 537.51 ft (163.833 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 1.50 ft³/s (0.0425 m³/s), 9.47 in/yr (241 mm/yr), 1,090 acre-ft/yr (1.34 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 291 ft³/s (8.24 m³/s) Aug. 26 (gage height, 4.60 ft or 1.402 m); no flow at times.

Period of record: Maximum discharge, 352 ft³/s (9.97 m³/s) Oct. 19, 1971 (gage height, 5.10 ft or 1.554 m); no flow for several days in 1974.

Maximum stage since April 1964, 9.0 ft (2.74 m) in April 1966 at upstream side of Fain Street culvert, from information by local resident (discharge not determined).

REMARKS.--Records good above 1.0 ft³/s (0.028 m³/s) and fair below except those for period of no gage-height record, which are poor. Low flow is sustained by effluent from commercial establishments and industry above station. Two recording rain gages are operated in basin above station.

REVISIONS.--WRO Texas 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.14	.05	.05	.14	.03	.03	7.0	.03	.06	.02	.08
2	.04	.08	.08	.10	.14	.03	.05	1.2	.03	.03	9.3	.05
3	.04	.08	.95	.13	.14	.03	.08	.22	.72	.04	1.3	.05
4	.04	.22	.08	.13	.22	.03	.06	.15	2.1	0	.38	.03
5	.29	.14	.05	.09	.38	.03	.05	27	.09	5.5	.38	.03
6	.24	.08	.05	.08	.38	.02	.05	2.2	.09	.44	11	.03
7	.05	.08	.05	.08	.44	.02	.05	1.2	13	.10	.56	.03
8	.04	.05	.05	.08	.30	.02	.16	.82	.88	.08	.36	.03
9	.04	.05	.05	.08	.27	.02	.07	.61	17	.05	.22	1.3
10	.03	.05	.05	1.5	.22	1.6	.07	.59	.60	.03	13	.39
11	29	.05	.05	.05	.26	1.9	6.7	.38	.15	.03	1.1	.05
12	27	.05	.05	.05	.30	.22	.30	.38	12	.02	.28	4.3
13	9.8	.05	.05	.05	.22	.22	.14	.38	.60	.01	.21	2.6
14	.83	.05	.05	.05	.22	.24	.14	.38	.10	.02	.08	.87
15	.88	.05	.05	.05	.22	.08	.20	.38	.07	.02	.05	.24
16	.44	.05	.05	.05	.22	.05	.08	.52	.08	0	.03	14
17	.19	.05	.05	.03	.22	.08	.05	.08	.03	0	.04	12
18	.14	.05	.03	7.9	.45	.08	.08	.05	.08	.01	.03	1.5
19	.15	.70	3.3	5.7	.22	.08	.11	.05	.08	.02	0	.49
20	.08	7.0	.52	.31	.12	.61	.23	.07	.08	.02	.01	35
21	.08	.30	1.3	.18	13	.22	24	.08	.08	0	0	5.1
22	.18	.14	.13	.10	.14	.08	3.2	.08	.06	0	.01	1.2
23	.18	.08	.13	.29	.05	.05	.91	.13	.04	0	.22	.50
24	.39	.05	.09	.25	.03	.90	.29	.22	.03	0	.22	11
25	.38	.22	.08	.10	.03	.22	.22	.78	.06	0	.08	8.5
26	.10	.14	.08	.72	.03	.14	.22	.33	.02	0	62	1.7
27	.08	.08	.08	.64	.03	.14	.22	.14	.02	0	3.7	1.1
28	.03	.05	.17	.40	.03	.08	.22	.11	.05	0	.61	.46
29	.03	.05	.15	.11	-----	.05	.22	.06	.17	.90	.22	.22
30	14	.05	.09	.14	-----	.03	1.3	.05	.21	1.4	1.5	.22
31	1.4	-----	.05	.14	-----	.03	-----	.04	-----	.09	.22	-----
TOTAL	86.22	10.23	8.01	19.63	18.42	7.33	39.53	45.65	48.60	8.87	107.13	103.07
MEAN	2.78	.34	.26	.63	.66	.24	1.32	1.47	1.62	.29	3.46	3.44
MAX	29	7.0	3.3	7.9	13	1.9	24	27	17	5.5	62	35
MIN	.03	.05	.03	.03	.03	.02	.03	.04	.02	0	0	.03
CFSM	1.29	.16	.12	.29	.31	.11	.61	.68	.75	.13	1.61	1.60
IN.	1.49	.18	.14	.34	.32	.13	.68	.79	.84	.15	1.85	1.78
AC-FT	171	20	16	39	37	15	78	91	96	18	212	204
(††)	5.52	1.06	.50	1.01	.96	.40	2.30	2.66	3.90	1.06	7.26	5.92

CAL YR 1973	TOTAL 778.01	MEAN 2.13	MAX 63	MIN .02	CFSM .99	IN 13.46	AC-FT 1540	†† 42.82
WTR YR 1974	TOTAL 502.69	MEAN 1.38	MAX 62	MIN 0	CFSM .64	IN 8.70	AC-FT 997	†† 32.55

PEAK DISCHARGE (BASE, 170 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-11	0515	3.96	219	8-26	1830	4.60	291
10-12	2145	3.87	210	9-20	1845	4.02	225
4-21	1830	3.88	211				

†† Weighted-mean rainfall, in inches, based on two rain gages.

NOTE.--No gage-height record Nov. 2 to Dec. 3.

TRINITY RIVER BASIN

08048850 Little Fossil Creek at Mesquite Street, Fort Worth, Tex.

LOCATION.--Lat 32°48'33", Long 97°17'28", Tarrant County, on right bank at intersection of Mesquite Street and Broadway Avenue in Fort Worth, 150 ft (46 m) upstream from bridge on Alta Vista Road (Beach Street), 4.3 miles (6.9 km) northeast of county courthouse, and approximately 4.3 miles (6.9 km) upstream from Big Fossil Creek.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 548.62 ft (167.219 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 5.51 ft³/s (0.156 m³/s), 6.08 in/yr (154 mm/yr), 3,990 acre-ft/yr (4.92 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,430 ft³/s (40.5 m³/s) Sept. 20 (gage height, 8.27 ft or 2.521 m); no flow for many days.

Period of record: Maximum discharge, 1,630 ft³/s (46.2 m³/s) July 15, 1973 (gage height, 8.78 ft or 2.676 m); maximum gage height, 8.90 ft (2.713 m) Dec. 9, 1971; no flow at times each year.

Maximum stage since 1955, 10.5 ft (3.20 m) at Alta Vista Road in September 1962, from information by local resident (discharge not determined). Flood of Mar. 20, 1968, reached a stage of 8.7 ft (2.65 m), discharge, 1,600 ft³/s (45.3 m³/s), from floodmarks at upstream side of Alta Vista Road Bridge.

REMARKS.--Records good below 200 ft³/s (5.66 m³/s) and fair above. Flow slightly regulated by several small farm ponds located on tributaries above station. Low flow is sustained at times by effluent from industrial park 2.6 miles (4.2 km) upstream. Three recording rain gages are operated in basin above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	7.5	2.3	1.8	.98	2.3	1.5	5.8	.08	0	.03	.84
2	.22	4.6	2.3	1.8	.98	2.3	1.5	3.6	.03	0	1.6	.60
3	.17	3.5	6.0	1.5	.98	2.3	1.5	1.4	.38	0	2.6	.35
4	.14	7.1	8.0	1.3	.98	2.3	1.0	.97	1.6	0	.11	.22
5	.17	5.0	4.2	1.3	.98	2.0	.75	50	.51	.04	.01	.11
6	.51	3.6	3.4	1.3	1.1	2.0	1.3	19	.22	0	1.5	.04
7	.51	3.3	2.9	1.3	.98	2.0	.72	5.2	13	0	.31	.04
8	.42	3.3	2.3	1.3	.98	2.0	.66	2.9	7.3	0	.03	.04
9	.22	3.1	2.3	1.3	.84	2.0	.60	2.0	36	0	.02	.35
10	.14	2.7	2.0	1.3	.98	2.8	.71	1.5	3.5	.08	.02	.97
11	65	2.5	2.0	1.3	1.1	7.4	4.2	1.1	1.4	0	.02	.36
12	49	2.3	2.0	1.3	1.3	3.9	2.7	.88	14	0	.01	5.2
13	163	2.2	2.0	2.0	1.5	2.3	1.5	.60	6.2	0	.01	3.8
14	14	2.0	2.0	1.8	1.5	2.0	.87	.60	2.0	0	.01	1.5
15	7.5	2.0	2.0	1.5	1.5	1.8	.83	.60	.96	0	.01	.99
16	6.2	1.8	2.0	1.5	1.5	1.5	.82	.57	.62	0	.01	22
17	4.6	1.8	2.0	1.5	1.3	1.5	.86	.74	.43	0	.01	89
18	3.2	1.8	2.1	3.2	1.5	1.5	.79	.71	.32	0	0	14
19	3.2	1.8	5.2	17	1.1	1.5	.81	.56	.19	0	0	5.6
20	3.0	15	3.0	4.2	1.1	1.8	.98	.46	.14	0	0	205
21	2.8	4.1	2.6	2.0	30	1.5	25	.42	.13	0	0	90
22	2.5	3.0	2.3	1.8	11	1.5	22	.42	.06	0	0	12
23	2.3	2.6	2.0	1.5	5.0	1.5	5.1	.39	.03	0	0	6.0
24	2.1	9.4	2.0	1.3	3.5	1.8	2.9	.31	.01	0	0	20
25	2.0	8.7	1.8	1.1	2.9	1.5	1.2	.25	0	0	0	115
26	1.9	4.3	1.8	1.3	2.6	1.5	.98	.30	0	0	79	22
27	1.7	3.3	1.8	1.3	2.3	1.5	.98	.20	0	0	47	11
28	1.6	2.9	1.8	1.3	2.3	1.5	.98	.12	0	0	3.3	6.7
29	1.5	2.5	1.8	1.1	-----	1.5	.84	.13	0	.07	1.1	4.6
30	50	2.3	1.8	1.3	-----	1.5	1.0	.12	0	.01	.79	3.6
31	32	-----	1.8	.98	-----	1.5	-----	.09	-----	0	1.1	-----
TOTAL	421.88	120.0	81.5	64.48	82.78	64.0	85.58	101.94	89.11	.20	138.60	641.91
MEAN	13.6	4.00	2.63	2.08	2.96	2.06	2.85	3.29	2.97	.007	4.47	21.4
MAX	163	15	8.0	17	30	7.4	25	50	36	.08	79	205
MIN	.14	1.8	1.8	.98	.84	1.5	.60	.09	0	0	0	.04
CFSM	1.11	.33	.21	.17	.24	.17	.23	.27	.24	.0006	.36	1.74
IN.	1.28	.36	.25	.20	.25	.19	.26	.31	.27	0	.42	1.94
AC-FT	837	238	162	128	164	127	170	202	177	.4	275	1,270
(††)	5.58	1.50	.53	.76	1.11	.62	2.76	1.98	4.04	.31	6.73	6.08
CAL YR 1973	TOTAL 3,090.79	MEAN 8.47	MAX 324	MIN 0	CFSM .69	IN 9.35	AC-FT 6,130	†† 41.28				
WTR YR 1974	TOTAL 1,891.98	MEAN 5.18	MAX 205	MIN 0	CFSM .42	IN 5.72	AC-FT 3,750	†† 32.00				

PEAK DISCHARGE (BASE, 290 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-13	0130	5.28	537	9-17	0800	4.74	359
8-26	2000	5.94	543	9-20	2015	8.27	1,430

†† Weighted mean rainfall, in inches, based on three rain gages.

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS, 1974 WATER YEAR

Station	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
08048550	Dry Branch at Blandin Street, Fort Worth, Tex. 1/	Lat 32°47'19", long 97°18'22", Tarrant County, at culvert on Blandin Street in north Fort Worth and 2.82 miles upstream from mouth.	1.08	1969-74	8-26-74	589.24	450
08048820	Little Fossil Creek at Interstate Highway 820, Fort Worth, Tex. 1/	Lat 32°50'22", Long 97°19'20", Tarrant County, at culvert on south access road to Interstate Highway 820, 5.7 miles north of Tarrant County courthouse, Fort Worth, and 7.55 miles upstream from mouth.	5.64	1969-74	9-20-74	614.83	914

1/ Equipped with stage-rainfall recorder.

F O R T W O R T H U R B A N H Y D R O L O G Y S T U D Y													
D A I L Y A N D M O N T H L Y R A I N F A L L S U M M A R Y													
P E R I O D : 1 9 7 4 W A T E R Y E A R													
G A G E N U M B E R													
SYCAMORE CREEK SYCAMORE CR TRIB DRY BRANCH LITTLE FOSSIL CREEK													
DATE	1-SC	2-SC	3-SC	1-ST	2-ST	1-DB	2-DB	1-LF	2-LF	3-LF			
OCT													
5	0.10	0.07	0.12	0.18	0.11	0.09	0.07	0.06	0.09	0.05			
6	0.20	0.20	0.45	0.31	0.20	0.10	0.07	0.16	0.09	0.14			
11	2.04	2.08	1.92	2.45	2.13	2.05	2.21	2.01	1.90	1.90			
12	1.50	1.63	1.32	1.85	1.41	1.55	1.88	1.76	1.54	1.49			
13	0.20	0.19	0.19	0.21	0.17	0.13	0.27	0.13	0.11	0.11			
15	0.11	0.15	0.16	0.39	0.12	0.07	0.00	0.05	0.06	0.15			
27	0.00	0.00	0.00	0.11	0.05	0.00	0.00	0.09	0.07	0.08			
30	1.32	1.30	1.02	1.10	1.15	1.12	1.44	1.70	1.95	1.20			
MTOT	5.47	5.62	5.18	6.60	5.34	5.11	5.94	5.96	5.81	5.12			
NOV													
4	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.45	0.23	0.07			
9	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00			
17	0.56	0.55	0.49	0.35	0.42	0.00	0.00	0.00	0.00	0.00			
19	0.26	0.35	0.28	0.40	0.15	0.15	0.25	0.28	0.30	0.12			
20	0.24	0.25	0.35	0.22	0.41	0.40	0.41	0.51	0.39	0.53			
24	0.20	0.29	0.32	0.29	0.31	0.48	0.37	0.48	0.46	0.58			
25	0.05	0.12	0.08	0.07	0.08	0.00	0.00	0.00	0.00	0.00			
26	0.13	0.10	0.10	0.19	0.15	0.00	0.00	0.00	0.00	0.00			
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.00			
MTOT	1.44	1.66	1.62	1.60	1.52	1.08	1.03	1.80	1.43	1.30			
DEC													
3	0.49	0.34	0.30	0.34	0.35	0.25	0.28	0.48	0.24	0.26			
19	0.49	0.38	0.26	0.60	0.45	0.30	0.18	0.19	0.25	0.18			
23	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
MTOT	0.98	0.72	0.61	0.94	0.80	0.55	0.46	0.67	0.49	0.44			
CIOT	40.70	41.15	37.45	46.41	41.58	43.28	42.35	41.50	43.13	39.97			
MTOT=MONTHLY TOTALS													
CIOT=CALENDAR YEAR TOTALS													

F O R T W O R T H U R B A N H Y D R O L O G Y S T U D Y

DAILY AND MONTHLY RAINFALL SUMMARY

PERIOD : 1974 WATER YEAR

G A G E N U M B E R

SYCAMORE CREEK | SYCAMORE CR TRIB | DRY BRANCH | LITTLE FOSSIL CREEK

DATE	1-SC	2-SC	3-SC	1-ST	2-ST	1-DB	2-DB	1-LF	2-LF	3-LF
JAN										
10	0.42	0.47	0.46	0.40	0.25	0.00	0.16	0.00	0.00	0.00
18	1.31	1.10	0.75	0.82	0.90	0.81	0.70	0.66	0.70	0.70
23	0.11	0.12	0.07	0.10	0.10	0.00	0.00	0.05	0.08	0.08
25	0.07	0.11	0.08	0.06	0.09	0.10	0.09	0.00	0.00	0.00
26	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.07	0.00	0.14	0.02	0.00	0.00	0.00
MTOT	1.91	1.80	1.36	1.49	1.34	1.05	0.97	0.71	0.78	0.78
FEB										
21	0.87	0.92	0.88	0.84	1.01	1.01	0.91	1.26	1.18	0.95
MTOT	0.87	0.92	0.88	0.84	1.01	1.01	0.91	1.26	1.18	0.95
MAR										
10	0.00	0.00	0.00	0.00	0.00	0.33	0.07	0.49	0.35	0.40
11	0.27	0.31	0.23	0.05	0.07	0.00	0.00	0.00	0.00	0.00
20	0.13	0.17	0.17	0.16	0.17	0.12	0.07	0.13	0.10	0.11
24	0.20	0.25	0.16	0.31	0.16	0.12	0.10	0.10	0.11	0.07
MTOT	0.60	0.73	0.56	0.52	0.40	0.57	0.24	0.72	0.56	0.58
APR										
6	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.20	0.29	0.07
11	0.64	0.56	0.66	0.65	0.55	0.50	0.59	0.47	0.50	0.49
20	0.03	0.05	0.04	0.05	0.06	0.00	0.00	0.00	0.05	0.05
21	0.42	0.44	0.44	0.94	0.65	1.59	1.29	2.10	1.53	2.03
22	0.13	0.06	0.03	0.10	0.08	0.11	0.15	0.08	0.05	0.08
30	0.00	0.00	0.00	0.10	0.06	0.15	0.15	0.05	0.10	0.07
MTOT	1.22	1.11	1.17	1.84	1.40	2.41	2.18	2.90	2.52	2.79
MTOT=MONTHLY TOTALS										

F O R T W O R T H U R B A N H Y D R O L O G Y S T U D Y													
D A I L Y A N D M O N T H L Y R A I N F A L L S U M M A R Y													
P E R I O D : 1 9 7 4 W A T E R Y E A R													
G A G E N U M B E R													
SYCAMORE CREEK SYCAMORE CR TRIB DRY BRANCH LITTLE FOSSIL CREEK													
DATE	1-SC	2-SC	3-SC	1-ST	2-ST	1-DB	2-DB	1-LF	2-LF	3-LF			
MAY													
1	0.60	0.60	0.62	1.02	0.76	0.72	0.87	0.38	0.60	0.73			
5	1.95	1.95	2.18	2.35	2.12	1.80	1.56	1.57	1.15	1.20			
14	0.55	1.00	0.65	0.20	0.21	0.00	0.00	0.05	0.03	0.05			
25	0.21	0.06	0.09	0.10	0.08	0.12	0.25	0.00	0.05	0.07			
26	0.05	0.06	0.12	0.00	0.00	0.00	0.00	0.00	0.02	0.00			
MTOT	3.36	3.67	3.66	3.67	3.17	2.64	2.68	2.00	1.85	2.05			
JUN													
3	0.55	0.36	0.37	0.40	0.46	0.15	0.08	0.43	0.20	0.26			
4	0.27	0.24	0.22	0.45	0.27	0.25	0.35	0.42	0.35	0.32			
7	0.45	1.16	1.20	1.64	1.96	1.55	1.07	1.16	1.37	1.55			
9	0.95	1.13	0.97	0.69	1.10	1.30	1.07	0.92	1.14	1.36			
12	2.40	2.16	1.64	1.35	1.52	0.93	1.06	0.73	0.76	1.01			
MTOT	4.62	5.05	4.40	4.53	5.31	4.18	3.63	3.66	3.82	4.50			
JUL													
5	0.00	0.00	0.00	0.00	0.00	0.11	1.22	0.00	0.00	0.00			
26	0.06	0.00	0.05	0.08	0.04	0.00	0.00	0.00	0.00	0.00			
29	0.31	0.22	0.10	0.49	0.31	0.19	0.43	0.10	0.49	0.29			
30	0.10	0.17	0.28	0.25	0.28	0.06	0.11	0.02	0.07	0.03			
MTOT	0.47	0.39	0.43	0.82	0.63	0.36	1.76	0.12	0.56	0.32			
MTOT=MONTHLY TOTALS													

F O R T W O R T H U R B A N H Y D R O L O G Y S T U D Y

DAILY AND MONTHLY RAINFALL SUMMARY

PERIOD : 1974 WATER YEAR

G A G E N U M B E R

SYCAMORE CREEK | SYCAMORE CR TRIB | DRY BRANCH | LITTLE FOSSIL CREEK

DATE

1-SC | 2-SC | 3-SC | 1-ST | 2-ST | 1-DB | 2-DB | 1-LF | 2-LF | 3-LF

AUG

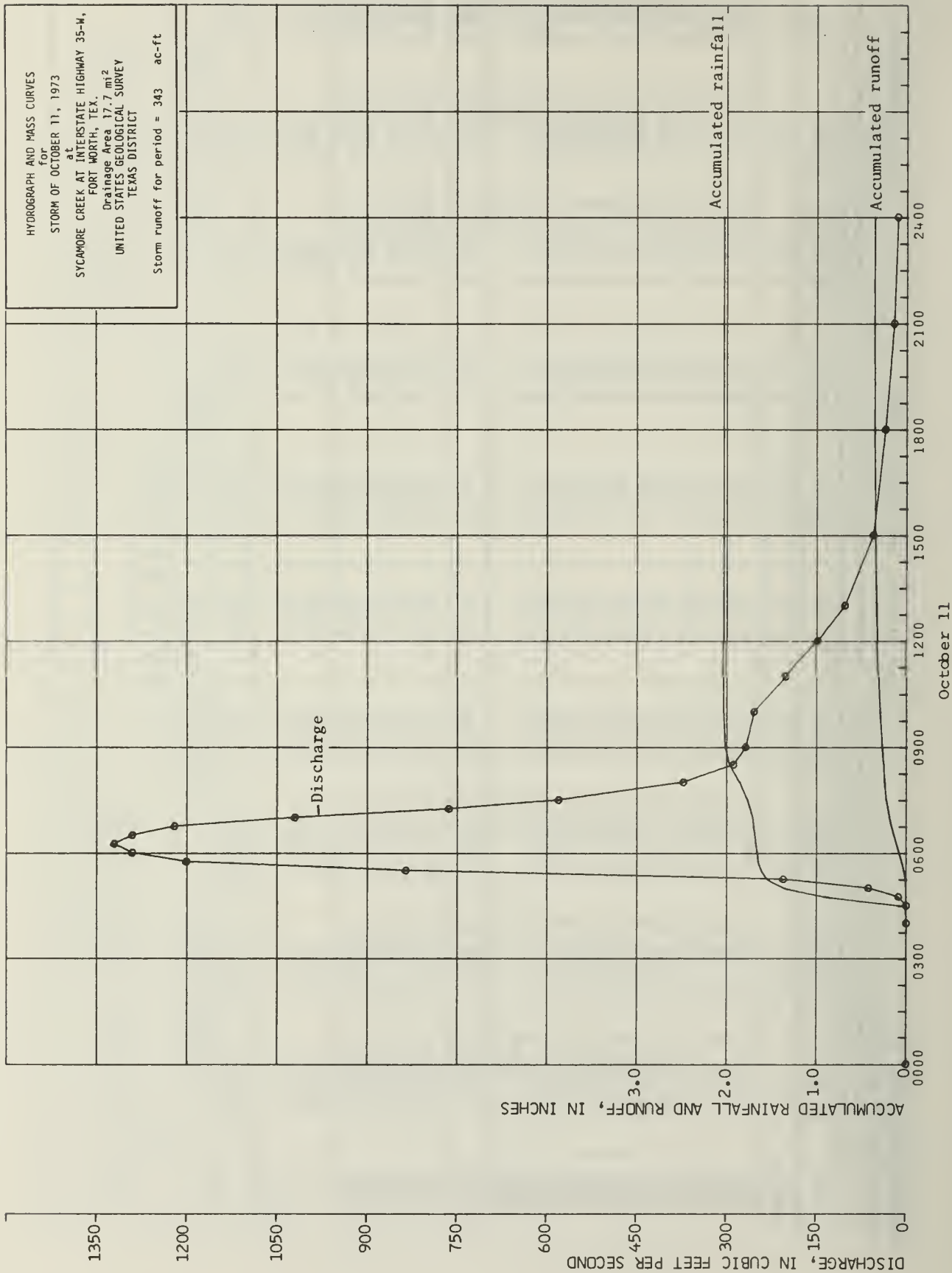
1	0.00	0.59	0.06	0.06	0.07	0.06	0.03	0.00	0.00	0.02
2	0.00	0.00	0.00	0.07	0.26	1.01	0.88	1.25	0.84	1.50
6	0.29	0.36	0.24	0.72	0.36	0.95	0.95	0.56	0.61	0.64
10	1.12	1.07	1.02	1.32	1.27	1.06	1.07	0.96	0.74	0.79
22	0.00	0.00	0.82	1.37	1.61	0.03	0.05	0.05	0.00	0.00
26	4.51	4.37	3.00	3.45	3.07	3.82	4.01	4.00	3.42	3.64
27	0.11	0.10	0.15	0.18	0.09	0.05	0.06	0.00	0.00	0.00
30	0.98	0.74	0.73	0.61	0.39	0.26	0.22	0.36	0.30	0.27
MTOT	7.01	7.23	6.02	7.78	7.12	7.24	7.27	7.18	5.91	6.86

SEPT

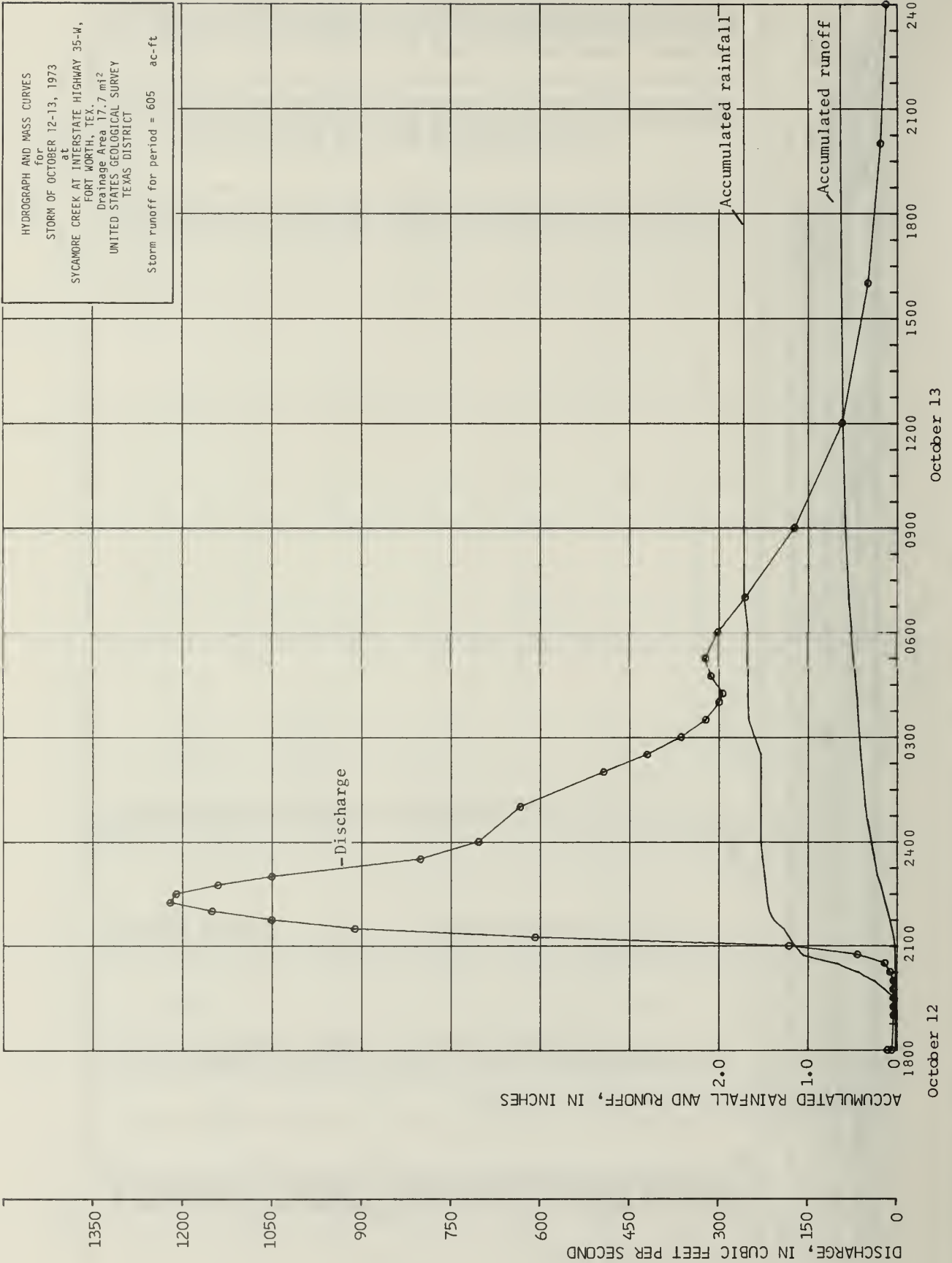
9	0.37	0.46	0.40	0.43	0.43	0.36	0.19	0.15	0.15	0.36
10	0.03	0.06	0.03	0.00	0.00	0.05	0.04	0.03	0.03	0.00
12	0.39	0.61	0.51	1.87	0.70	0.41	0.77	0.22	0.53	0.85
13	0.12	0.22	0.13	0.19	0.20	0.20	0.25	0.19	0.18	0.18
14	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.07	0.07	0.08
16	0.52	0.53	0.46	0.42	0.49	1.29	1.02	1.19	0.98	1.40
17	0.22	0.20	0.19	0.52	0.15	0.65	0.35	0.60	0.67	0.93
20	0.65	1.00	0.92	0.70	1.19	1.60	2.08	1.58	2.40	1.70
21	0.04	0.05	0.04	0.06	0.04	0.05	0.07	0.07	0.04	0.05
24	1.11	1.10	0.99	0.91	1.07	1.00	0.98	0.99	1.05	1.00
25	0.11	0.16	0.11	0.17	0.15	0.16	0.14	0.14	0.14	0.14
27	0.00	0.00	0.00	0.06	0.04	0.00	0.00	0.00	0.00	0.00
MTOT	3.56	4.39	3.78	5.33	4.46	5.86	5.99	5.23	6.24	6.69
WTOT	31.51	33.29	29.67	35.96	32.50	32.06	33.06	32.21	31.15	32.38

MTOT=MONTHLY TOTALS
WTOT=WATER YEAR TOTAL

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STATION NO. 080448520									
SYCAMORE CREEK AT INTERSTATE HWY 35-W, FORT WORTH, TEX.									
STORM OF OCTOBER 11, 1973									
DATE & TIME	1-SC	2-SC	3-SC	G A G E	N U M B E R	ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN FT ³ /S	ACCUM. RUNOFF IN.	
OCT. 11									
0000	0.0	0.0	0.0	0.0		0.0	0.1	0.0000	
0400	0.0	0.0	0.0	0.0		0.0	0.1	0.0000	
0430	0.02	0.03	0.0	0.0		0.02		0.0000	
0445	1.10	0.98	0.23	0.99		0.88	13.0	0.0003	
0500	1.44	1.42	0.99	1.21		1.34	63.0	0.0017	
0515	1.60	1.64	1.21	1.42		1.55	205.0	0.0062	
0530	1.64	1.67	1.42	1.44		1.61	835.0	0.0245	
0545	1.69	1.70	1.44	1.45		1.65	1200.0	0.0507	
0600	1.70	1.71	1.45	1.48		1.66	1290.0	0.0790	
0615	1.71	1.73	1.48	1.49		1.68	1320.0	0.1079	
0630	1.72	1.74	1.49	1.50		1.69	1290.0	0.1361	
0645	1.74	1.75	1.50	1.51		1.70	1220.0	0.1628	
0700	1.75	1.76	1.51	1.54		1.71	1020.0	0.1851	
0715	1.77	1.79	1.54	1.57		1.74	763.0	0.2018	
0730	1.80	1.82	1.57	1.65		1.77	580.0	0.2209	
0800	1.89	1.91	1.65	1.75		1.85	372.0	0.2371	
0830	2.00	2.03	1.75	1.85		1.97	288.0	0.2497	
0900	2.04	2.07	1.85	1.92		2.02	268.0	0.2673	
1000	2.04	2.08	1.92	1.92		2.04	254.0	0.2896	
1100	2.04	2.08	1.92	1.92		2.04	201.0	0.3072	
1200	2.04	2.09	1.92	1.92		2.04	148.0	0.3201	
1300	2.04	2.08	1.92	1.92		2.04	103.0	0.3337	
1500	2.04	2.08	1.92	1.92		2.04	56.0	0.3459	
1800	2.04	2.08	1.92	1.92		2.04	36.0	0.3554	
2100	2.04	2.08	1.92	1.92		2.04	22.0	0.3612	
2400	2.04	2.08	1.92	1.92		2.04	16.0	0.3633	



STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
SYCAMORE CREEK AT INTERSTATE HWY 35-W, FORT WORTH, TEX. STORM OF OCTOBER 12-13, 1973									
DATE & TIME	1-SC	2-SC	3-SC	G A G E	N U M B E R	PRECIP. IN.	DISCHARGE IN	ACCUM. WEIGHTED PRECIP. IN.	ACCUM. RUNOFF
OCT. 12									
0000	0.0	0.0	0.0			0.0	16.0	0.0	0.0084
1200	0.0	0.0	0.0			0.0	8.6	0.0	0.0156
1900	0.0	0.0	0.0			0.0	6.4	0.0	0.0176
1915	0.0	0.0	0.02			0.00	6.4	0.00	0.0177
1930	0.04	0.02	0.03			0.03	6.4	0.03	0.0179
1945	0.18	0.13	0.08			0.14	6.1	0.14	0.0180
2000	0.29	0.23	0.25			0.25	6.1	0.25	0.0181
2015	0.41	0.50	0.32			0.44	12.0	0.44	0.0184
2030	0.65	0.74	0.55			0.67	21.0	0.67	0.0189
2045	1.06	1.14	0.85			1.06	67.0	1.06	0.0203
2100	1.15	1.20	0.98			1.14	182.0	1.14	0.0243
2115	1.22	1.29	1.01			1.21	608.0	1.21	0.0376
2130	1.28	1.34	1.07			1.27	911.0	1.27	0.0576
2145	1.35	1.49	1.16			1.38	1050.0	1.38	0.0805
2200	1.40	1.54	1.22			1.43	1150.0	1.43	0.1057
2215	1.43	1.56	1.23			1.45	1220.0	1.45	0.1324
2230	1.44	1.57	1.24			1.46	1210.0	1.46	0.1589
2245	1.45	1.58	1.25			1.47	1140.0	1.47	0.1838
2300	1.46	1.59	1.26			1.48	1050.0	1.48	0.2183
2330	1.47	1.62	1.30			1.51	801.0	1.51	0.2534
2400	1.50	1.63	1.32			1.53	703.0	1.53	0.2842
OCT. 13									
0000	1.50	1.63	1.32			1.53	703.0	1.53	0.2842
0100	1.50	1.63	1.32			1.53	633.0	1.53	0.3550
0200	1.50	1.63	1.32			1.53	493.0	1.53	0.3873
0230	1.50	1.63	1.32			1.53	420.0	1.53	0.4057
0300	1.57	1.71	1.37			1.60	363.0	1.60	0.4216
0330	1.65	1.77	1.45			1.67	322.0	1.67	0.4357
0400	1.65	1.78	1.45			1.67	299.0	1.67	0.4455
0415	1.65	1.78	1.45			1.67	293.0	1.67	0.4551
0445	1.65	1.78	1.45			1.67	313.0	1.67	0.4688
0515	1.65	1.78	1.45			1.67	322.0	1.67	0.4864
0600	1.65	1.78	1.45			1.67	302.0	1.67	0.5096
0700	1.70	1.82	1.51			1.72	256.0	1.72	0.5432
0900	1.70	1.82	1.51			1.72	173.0	1.72	0.5811
1200	1.70	1.82	1.51			1.72	93.0	1.72	0.6096
1600	1.70	1.82	1.51			1.72	50.0	1.72	0.6271
2000	1.70	1.82	1.51			1.72	29.0	1.72	0.6372
2400	1.70	1.82	1.51			1.72	19.0	1.72	0.6406

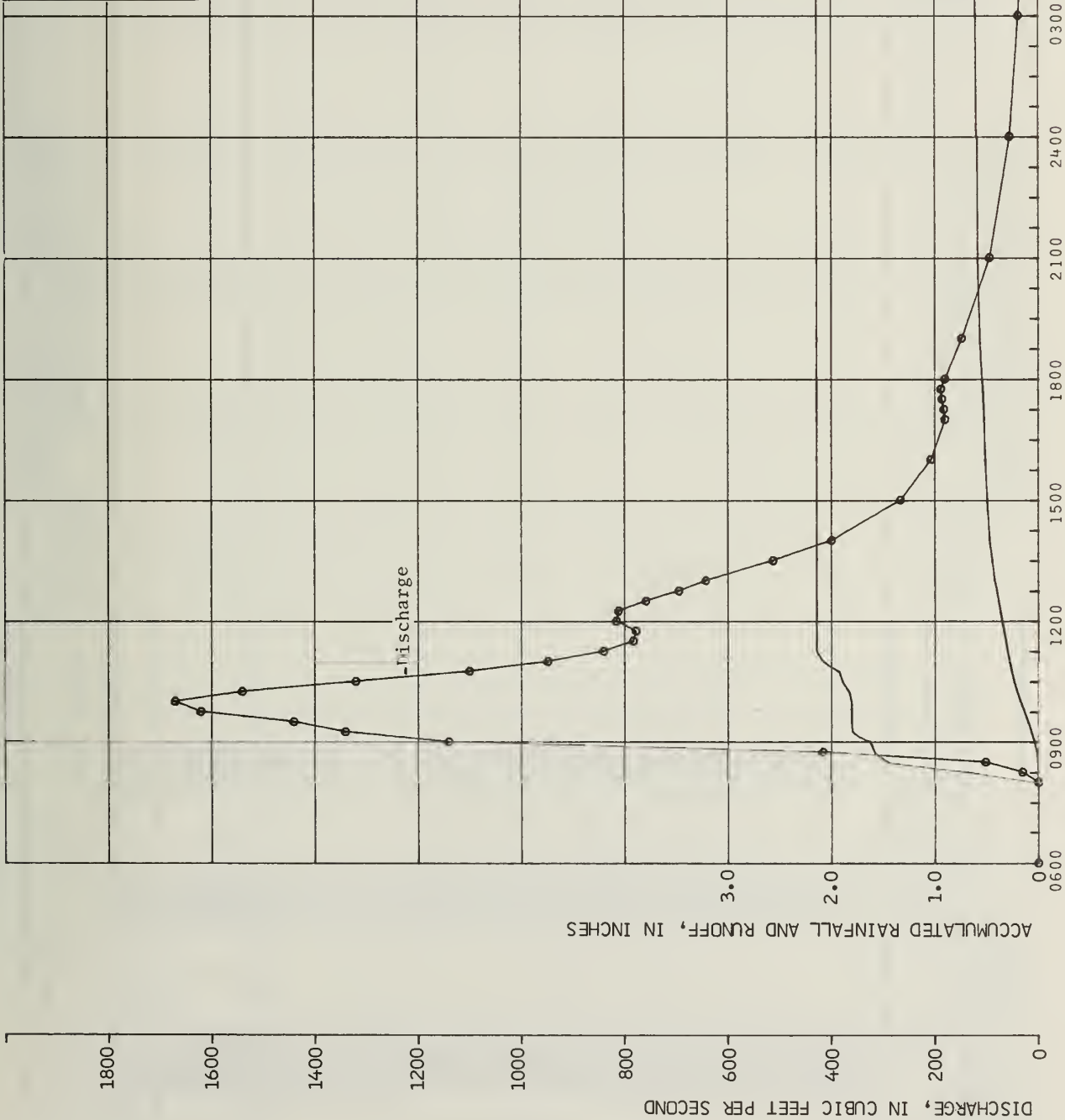


STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
SYCAMORE CREEK AT INTERSTATE HWY 35-W, FORT WORTH, TEX. STORM OF JUNE 12, 1974									
DATE & TIME	G A G E			PRECIP. IN.	DISCHARGE IN	ACCUM. WEIGHTED PRECIP. IN.	1974 WATER YEAR		
	1-SC	2-SC	3-SC				FT ³ /S	IN.	
JUNE 12									
0000	0.0	0.0	0.0		0.0		0.2		0.0001
0800	0.0	0.0	0.0		0.0		0.2		0.0002
0815	0.70	0.65	0.51		0.64		31.0		0.0008
0830	1.73	1.40	1.10		1.45		102.0		0.0031
0845	1.79	1.61	1.14		1.58		416.0		0.0122
0900	1.86	1.64	1.16		1.62		1140.0		0.0371
0915	2.02	1.85	1.27		1.80		1340.0		0.0665
0930	2.02	1.86	1.29		1.80		1440.0		0.0980
0945	2.02	1.86	1.29		1.80		1620.0		0.1334
1000	2.02	1.86	1.29		1.80		1670.0		0.1700
1015	2.04	1.89	1.29		1.83		1540.0		0.2037
1030	2.11	1.93	1.41		1.89		1320.0		0.2326
1045	2.12	1.95	1.51		1.92		1100.0		0.2566
1100	2.32	2.10	1.58		2.07		948.0		0.2774
1115	2.40	2.16	1.64		2.14		840.0		0.2958
1130	2.40	2.16	1.64		2.14		782.0		0.3129
1145	2.40	2.16	1.64		2.14		777.0		0.3299
1200	2.40	2.16	1.64		2.14		815.0		0.3477
1215	2.40	2.16	1.64		2.14		811.0		0.3655
1230	2.40	2.16	1.64		2.14		758.0		0.3821
1245	2.40	2.16	1.64		2.14		694.0		0.3973
1300	2.40	2.16	1.64		2.14		642.0		0.4183
1330	2.40	2.16	1.64		2.14		512.0		0.4408
1400	2.40	2.16	1.64		2.14		399.0		0.4670
1500	2.40	2.16	1.64		2.14		266.0		0.4902
1600	2.40	2.16	1.64		2.14		207.0		0.5084
1700	2.40	2.16	1.64		2.14		180.0		0.5182
1715	2.40	2.16	1.64		2.14		182.0		0.5222
1730	2.40	2.16	1.64		2.14		186.0		0.5263
1745	2.40	2.16	1.64		2.14		188.0		0.5304
1800	2.40	2.16	1.64		2.14		180.0		0.5402
1900	2.40	2.16	1.64		2.14		148.0		0.5597
2100	2.40	2.16	1.64		2.14		94.0		0.5802
2400	2.40	2.16	1.64		2.14		56.0		0.5913
JUNE 13									
0000	2.40	2.16	1.64		2.14		56.0		0.5913
0300	2.40	2.16	1.64		2.14		39.0		0.6052
0600	2.40	2.16	1.64		2.14		27.0		0.6158
1200	2.40	2.16	1.64		2.14		18.0		0.6253
1800	2.40	2.16	1.64		2.14		13.0		0.6321

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STATION NO. 08048520									
SYCAMORE CREEK AT INTERSTATE HWY 35-W, FORT WORTH, TEX.									
STORM OF JUNE 12, 1974									
G A G E N U M B E R									
DATE & TIME									
1-SC 2-SC 3-SC									
JUNE 13									
2400 2.40 2.16 1.64									
ACCUM. DISCHARGE ACCUM.									
WEIGHTED IN RUNOFF									
PRECIP. FT ³ /S IN.									
JUNE 13									
2400 2.40 2.16 1.64									
2.14 10.0 0.6347									

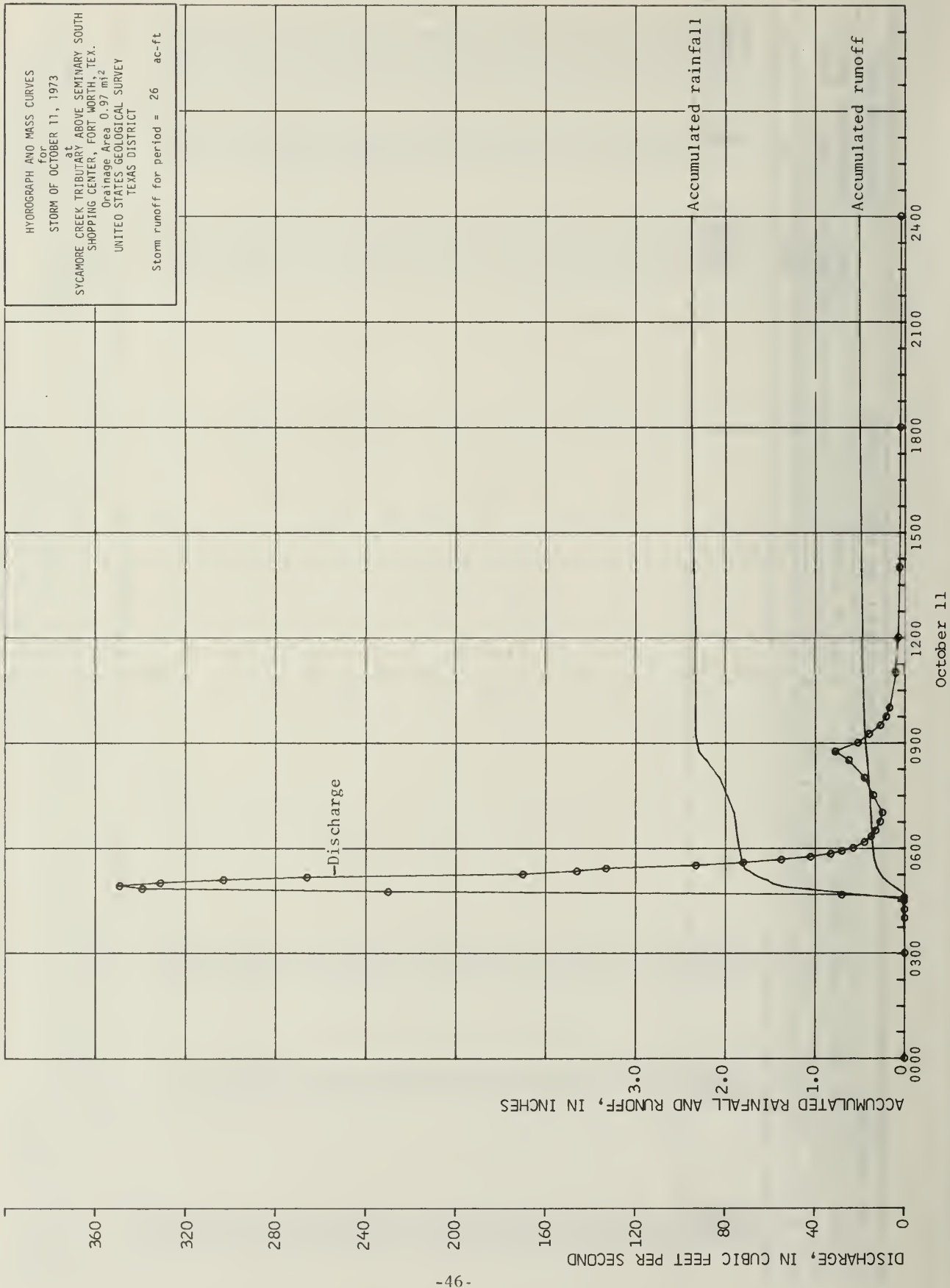
HYDROGRAPH AND MASS CURVES
for
STORM OF JUNE 12, 1974
at
SYCAMORE CREEK AT INTERSTATE HIGHWAY 35-W,
FORT WORTH, TEX.
Drainage Area 17.7 mi²
UNITED STATES GEOLOGICAL SURVEY
TEXAS DISTRICT

Storm runoff for period = 599 ac-ft



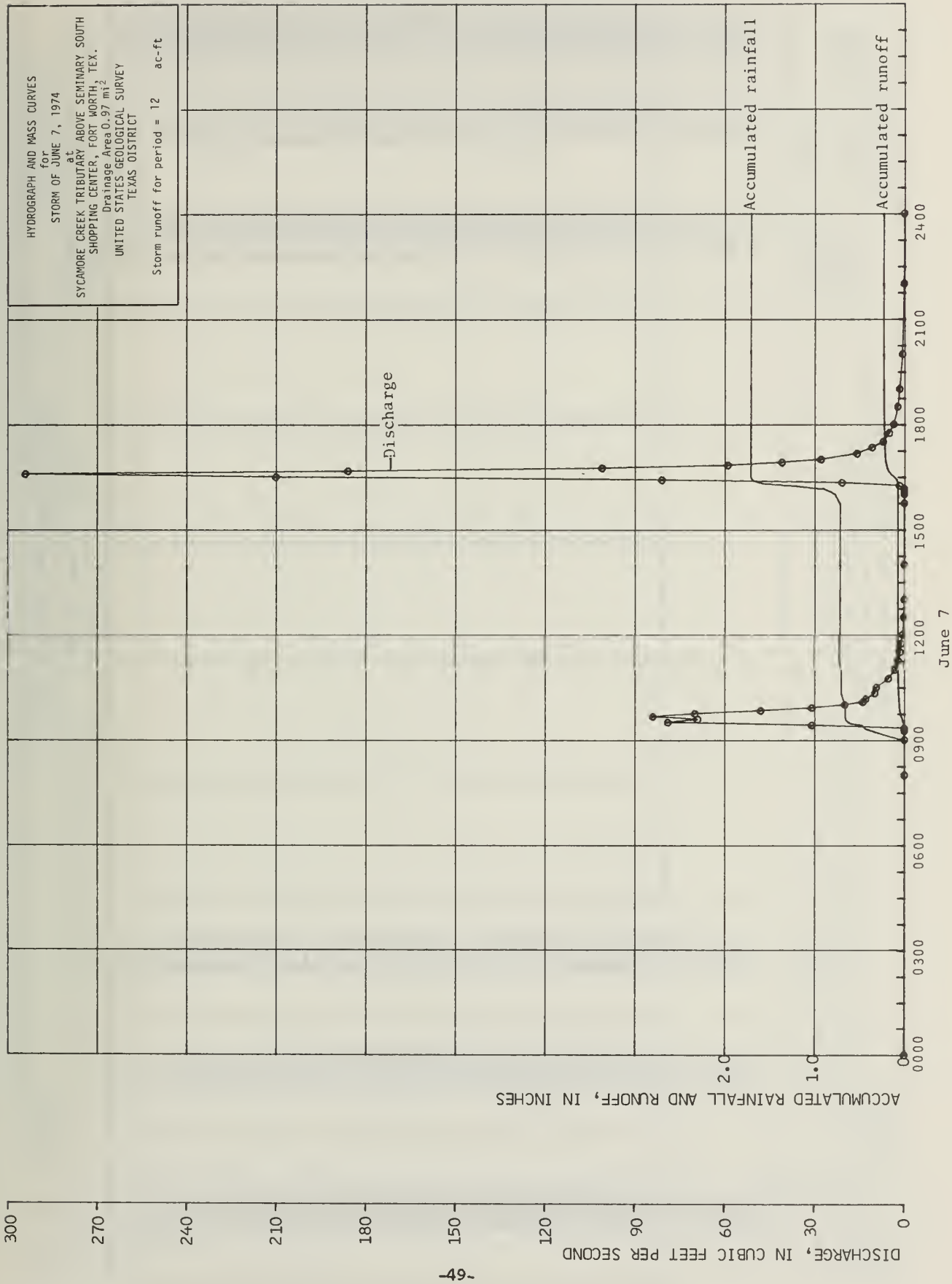
STORM RAINFALL AND RUNOFF RECORD										1974 WATER YEAR	
STA. NO.	08048530									DISCHARGE	ACCUM.
SYCAMORE CK TRIB ARV SEM. S. SHUP. CENTER, FT WORTH, TEX.		STORM OF OCTOBER 11, 1973								IN	RUNOFF
DATE & TIME		G A G E N U M B E R								FT ³ /S	IN.
		1-ST	2-ST								
OCT. 11											
0000	0.0	0.0							0.0	0.0	0.0000
0300	0.0	0.0							0.0	0.0	0.0001
0400	0.02	0.02							0.02	0.0	0.0002
0415	0.02	0.02							0.02	0.2	0.0002
0430	0.03	0.04							0.03	0.2	0.0003
0435	0.08	0.16							0.10	0.3	0.0003
0440	0.37	0.62							0.42	28.0	0.0041
0445	0.71	0.87							0.75	230.0	0.0347
0450	1.02	1.16							1.05	339.0	0.0798
0455	1.38	1.29							1.36	349.0	0.1263
0500	1.50	1.38							1.47	331.0	0.1703
0505	1.55	1.44							1.53	303.0	0.2107
0510	1.64	1.50							1.61	266.0	0.2461
0515	1.71	1.56							1.68	170.0	0.2687
0520	1.75	1.61							1.72	146.0	0.2882
0525	1.82	1.64							1.78	133.0	0.3059
0530	1.84	1.65							1.80	93.0	0.3182
0535	1.85	1.65							1.81	72.0	0.3278
0540	1.86	1.66							1.82	55.0	0.3351
0545	1.87	1.67							1.83	42.0	0.3407
0550	1.88	1.67							1.83	33.0	0.3451
0555	1.88	1.68							1.84	28.0	0.3489
0600	1.89	1.69							1.85	23.0	0.3534
0610	1.90	1.70							1.86	18.0	0.3582
0620	1.91	1.71							1.87	15.0	0.3622
0630	1.92	1.72							1.88	13.0	0.3666
0645	1.93	1.74							1.89	11.0	0.3710
0700	1.94	1.77							1.90	10.0	0.3769
0730	2.02	1.84							1.98	14.0	0.3881
0800	2.11	1.90							2.06	18.0	0.4025
0830	2.27	2.01							2.21	25.0	0.4175
0845	2.35	2.09							2.29	31.0	0.4299
0900	2.37	2.12							2.31	21.0	0.4383
0915	2.39	2.13							2.33	16.0	0.4446
0930	2.39	2.13							2.33	11.0	0.4490
0945	2.39	2.13							2.33	8.4	0.4524
1000	2.39	2.13							2.33	6.9	0.4593
1100	2.39	2.13							2.33	4.1	0.4658
1200	2.39	2.13							2.33	3.2	0.4735

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
SYCAMORE CK TRIB ARV SEM. S. SHOP. CENTER, FT WORTH, TEX. STORM OF OCTOBER 11, 1973									
DATE & TIME	GAGE		NUMBER	PRECIP.	ACCUM.	WEIGHTED	DISCHARGE	ACCUM.	RUNOFF
	1-ST	2-ST							
OCT. 11									
1400	2.42	2.13			2.36		2.5	0.4855	
1800	2.45	2.13			2.38		2.2	0.5030	
2400	2.45	2.13			2.38		1.9	0.5122	

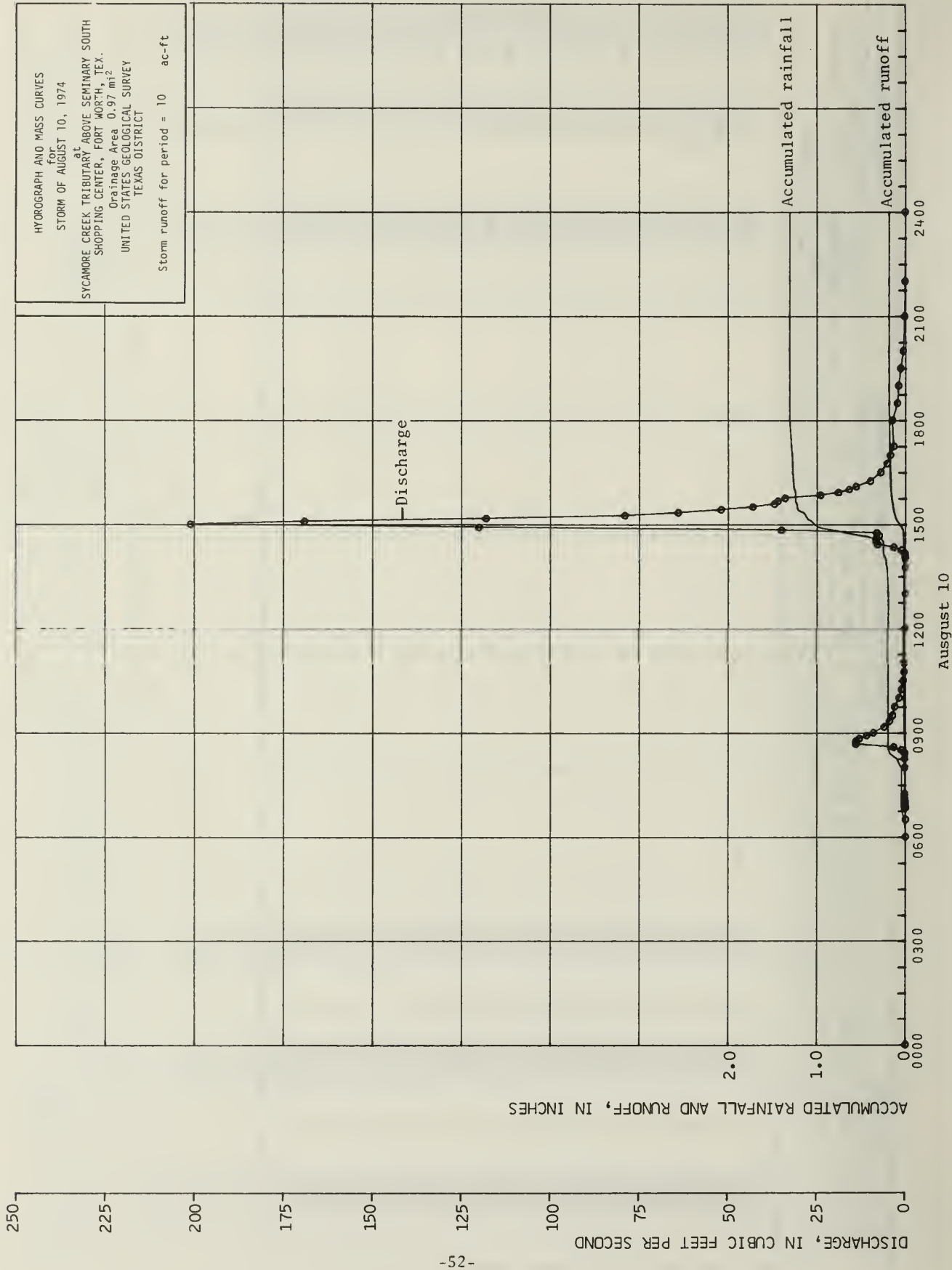


STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048530									
SYCAMORE CK TRIB ARV SEM. S. SHOP. CENTER, FT WORTH, TEX. STORM OF JUNE 7, 1974									
DATE & TIME	1-ST	2-ST	G A G E N U M B E R				ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN FT ³ /S	ACCUM. RUNOFF IN.
JUNE 7									
0000	0.0	0.0					0.0	0.1	0.0006
0800	0.0	0.0					0.0	0.1	0.0014
0900	0.01	0.01					0.01	0.1	0.0015
0915	0.34	0.34					0.35	0.1	0.0015
0920	0.44	0.45					0.44	0.2	0.0015
0925	0.45	0.54					0.47	31.0	0.0056
0930	0.60	0.70					0.62	79.0	0.0162
0935	0.64	0.71					0.66	69.0	0.0253
0940	0.65	0.71					0.66	84.0	0.0365
0945	0.65	0.71					0.66	70.0	0.0458
0950	0.65	0.71					0.66	48.0	0.0522
0955	0.65	0.71					0.66	31.0	0.0564
1000	0.66	0.71					0.67	20.0	0.0590
1005	0.66	0.72					0.67	14.0	0.0609
1010	0.67	0.74					0.69	13.0	0.0635
1020	0.69	0.76					0.71	10.0	0.0661
1030	0.69	0.76					0.71	9.5	0.0693
1045	0.69	0.76					0.71	5.5	0.0715
1100	0.69	0.76					0.71	3.4	0.0729
1115	0.71	0.76					0.72	2.2	0.0737
1130	0.71	0.76					0.72	1.6	0.0744
1145	0.71	0.76					0.72	1.2	0.0749
1200	0.71	0.76					0.72	0.8	0.0753
1230	0.71	0.76					0.72	0.4	0.0757
1300	0.71	0.76					0.72	0.3	0.0761
1400	0.71	0.76					0.72	0.2	0.0765
1545	0.71	0.76					0.72	0.2	0.0769
1600	0.77	0.79					0.77	0.2	0.0769
1605	0.82	0.81					0.82	0.2	0.0770
1610	0.90	0.90					0.90	0.2	0.0770
1615	1.15	1.31					1.19	1.9	0.0773
1620	1.55	1.75					1.59	21.0	0.0801
1625	1.62	1.95					1.69	81.0	0.0908
1630	1.64	1.96					1.71	210.0	0.1188
1635	1.64	1.96					1.71	294.0	0.1579
1640	1.64	1.96					1.71	186.0	0.1827
1645	1.64	1.96					1.71	101.0	0.1961
1650	1.64	1.96					1.71	59.0	0.2040
1655	1.64	1.96					1.71	41.0	0.2094

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
SYCAMORE CK TRIB ABV SEM. S. SHOP. CENTER. FT WORTH, TEX. STORM OF JUNE 7, 1974									
DATE & TIME	1-ST	2-ST	G A G E		N U M B E R		ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN FT ³ /S	ACCUM. RUNOFF IN.
JUNE 7									
1700	1.64	1.96					1.71	28.0	0.2150
1710	1.64	1.96					1.71	16.0	0.2193
1720	1.64	1.96					1.71	11.0	0.2222
1730	1.64	1.96					1.71	7.3	0.2247
1745	1.64	1.96					1.71	5.3	0.2268
1800	1.64	1.96					1.71	3.8	0.2291
1830	1.64	1.96					1.71	2.5	0.2310
1900	1.64	1.96					1.71	1.9	0.2333
2000	1.64	1.96					1.71	0.9	0.2355
2200	1.64	1.96					1.71	0.4	0.2369
2400	1.64	1.96					1.71	0.3	0.2374

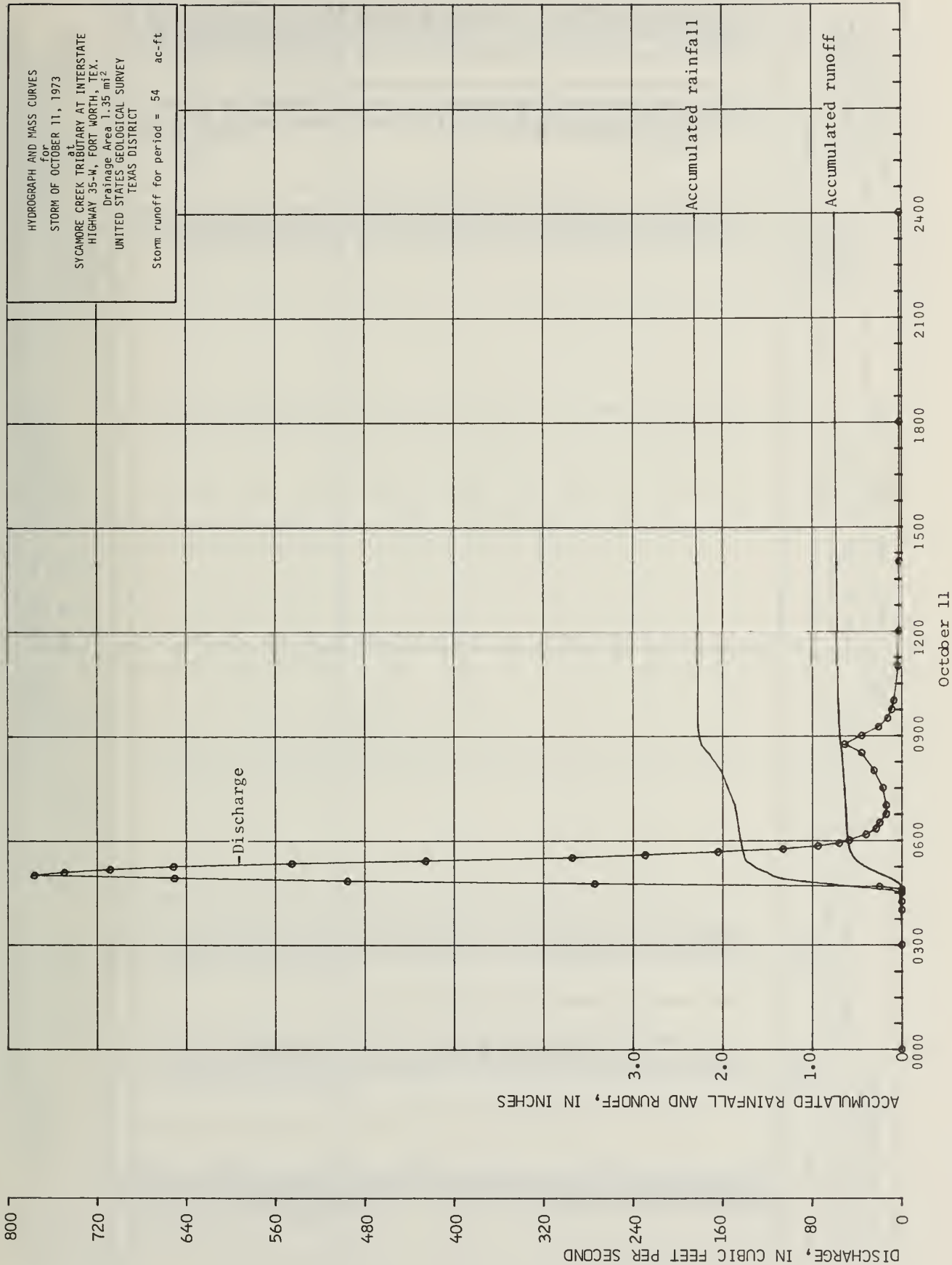


STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048530									
SYCAMORE CK TRIB ABV SEM. S. SHOP. CENTER, FT WORTH, TEX. STORM OF AUGUST 10, 1974									
DATE & TIME	1-ST	2-ST	G A G E	N U M B E R	WEIGHTED PRECIP.	DISCHARGE IN	ACCUM. IN	FT ³ /S	ACCUM. RUNOFF IN.
AUG. 10									
1445	0.64	0.67			0.65	8.2	0.0242		0.0242
1450	0.76	0.91			0.79	35.0	0.0289		0.0289
1455	0.95	1.02			0.97	120.0	0.0449		0.0449
1500	1.02	1.05			1.03	201.0	0.0716		0.0716
1505	1.05	1.08			1.06	169.0	0.0941		0.0941
1510	1.11	1.10			1.11	118.0	0.1098		0.1098
1515	1.13	1.12			1.13	79.0	0.1203		0.1203
1520	1.15	1.14			1.15	64.0	0.1289		0.1289
1525	1.23	1.16			1.21	52.0	0.1358		0.1358
1530	1.24	1.17			1.22	43.0	0.1415		0.1415
1535	1.24	1.17			1.22	37.0	0.1464		0.1464
1540	1.26	1.18			1.24	36.0	0.1512		0.1512
1545	1.26	1.18			1.24	34.0	0.1557		0.1557
1550	1.26	1.18			1.24	24.0	0.1589		0.1589
1555	1.26	1.18			1.24	19.0	0.1615		0.1615
1600	1.27	1.19			1.25	16.0	0.1636		0.1636
1605	1.28	1.20			1.26	14.0	0.1664		0.1664
1615	1.28	1.21			1.26	10.0	0.1697		0.1697
1630	1.29	1.22			1.27	7.1	0.1726		0.1726
1645	1.29	1.23			1.28	5.3	0.1747		0.1747
1700	1.29	1.24			1.28	4.3	0.1764		0.1764
1715	1.30	1.25			1.29	3.4	0.1791		0.1791
1800	1.32	1.27			1.31	3.8	0.1829		0.1829
1830	1.32	1.27			1.31	2.4	0.1848		0.1848
1900	1.32	1.27			1.31	2.1	0.1865		0.1865
1930	1.32	1.27			1.31	1.5	0.1877		0.1877
2000	1.32	1.27			1.31	0.8	0.1887		0.1887
2100	1.32	1.27			1.31	0.4	0.1893		0.1893
2200	1.32	1.27			1.31	0.3	0.1900		0.1900
2400	1.32	1.27			1.31	0.2	0.1904		0.1904



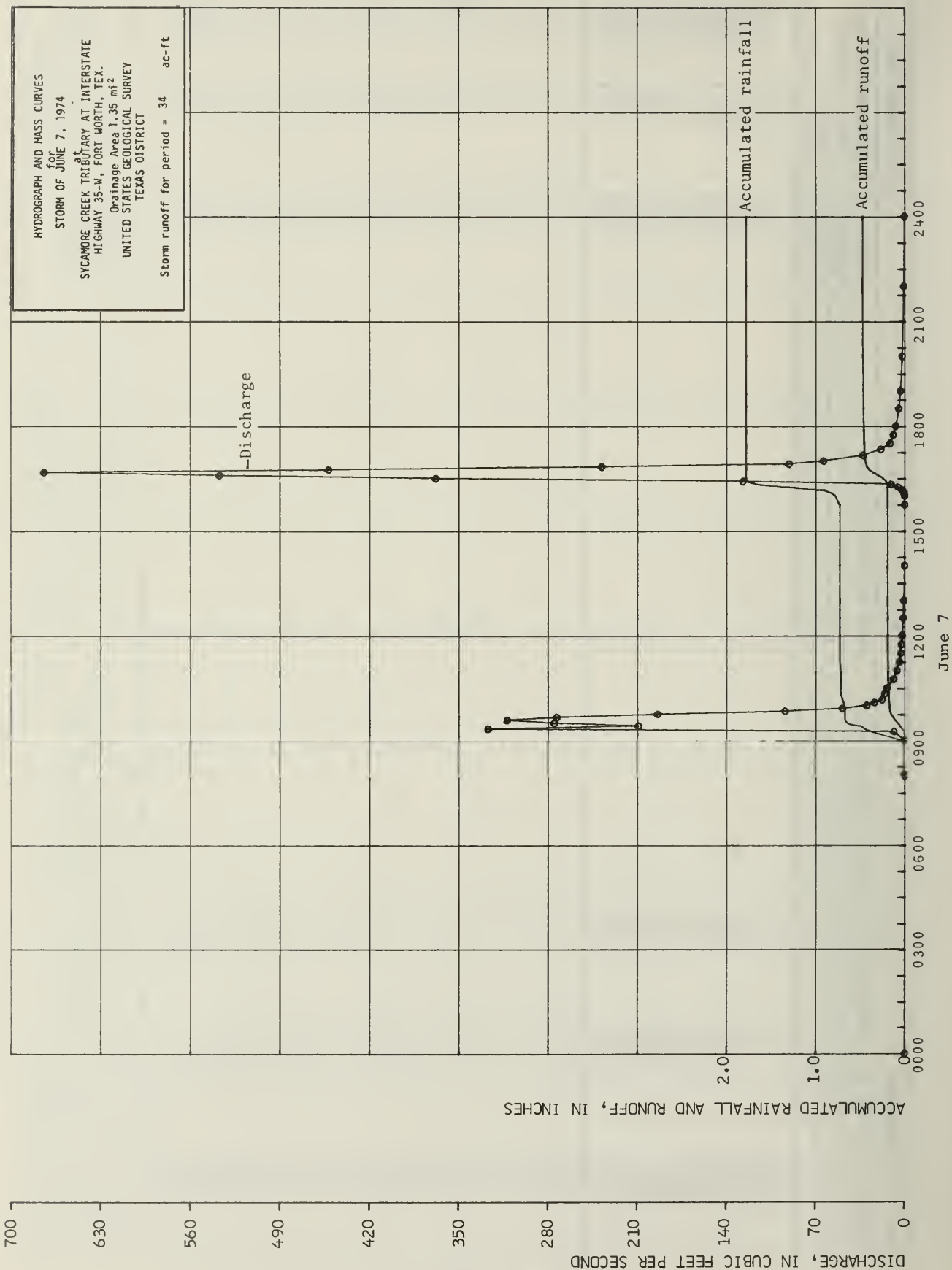
STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
SYCAMORE CK TRIB AT INTERSTATE HWY 35-W, FT. WORTH, TEX. STORM OF OCTOBER 11, 1973									
DATE & TIME	1-ST	2-ST	G A G E N U M B E R				PRECIP. IN.	DISCHARGE IN	ACCUM. RUNOFF
OCT. 11								FT ³ /S	IN.
0000	0.0	0.0					0.0	0.1	0.0002
0300	0.0	0.0					0.0	0.1	0.0004
0400	0.02	0.02					0.02	0.1	0.0005
0415	0.02	0.02					0.02	0.1	0.0005
0430	0.03	0.04					0.03	0.1	0.0005
0435	0.08	0.16					0.12	0.1	0.0005
0440	0.37	0.62					0.48	20.0	0.0024
0445	0.71	0.87					0.78	274.0	0.0287
0450	1.02	1.16					1.08	495.0	0.0760
0455	1.38	1.29					1.34	650.0	0.1382
0500	1.50	1.38					1.45	776.0	0.2124
0505	1.55	1.44					1.50	749.0	0.2840
0510	1.64	1.50					1.58	708.0	0.3518
0515	1.71	1.56					1.64	651.0	0.4140
0520	1.75	1.61					1.69	545.0	0.4662
0525	1.82	1.64					1.74	425.0	0.5068
0530	1.84	1.65					1.76	294.0	0.5349
0535	1.85	1.65					1.76	229.0	0.5569
0540	1.86	1.66					1.77	164.0	0.5725
0545	1.87	1.67					1.78	106.0	0.5827
0550	1.88	1.67					1.79	75.0	0.5899
0555	1.88	1.68					1.79	56.0	0.5952
0600	1.89	1.69					1.80	47.0	0.6020
0610	1.90	1.70					1.81	32.0	0.6081
0620	1.91	1.71					1.82	23.0	0.6125
0630	1.92	1.72					1.83	20.0	0.6173
0645	1.93	1.74					1.85	14.0	0.6213
0700	1.94	1.77					1.87	14.0	0.6273
0730	2.02	1.84					1.94	17.0	0.6371
0800	2.11	1.90					2.02	25.0	0.6514
0830	2.27	2.01					2.16	36.0	0.6669
0845	2.35	2.09					2.24	51.0	0.6815
0900	2.37	2.12					2.26	36.0	0.6919
0915	2.39	2.13					2.28	21.0	0.6979
0930	2.39	2.13					2.28	13.0	0.7016
0945	2.39	2.13					2.28	9.4	0.7043
1000	2.39	2.13					2.28	7.5	0.7097
1100	2.39	2.13					2.28	3.7	0.7139
1200	2.39	2.13					2.28	2.7	0.7186

STORM RAINFALL AND RUNOFF RECORD									
STIA. NO. 08048540									
SYCAMORE CK TRIH AT INTERSTATE HWY 35-W, FT. WORTH, TEX. STORM OF OCTOBER 11, 1973									
DATE & TIME	G A G E			N U M B E R			ACCUM. WEIGHTED PRECIP.		
	1-ST	2-ST					IN.	FT ³ /S	IN.
OCT. 11									
1400	2.42	2.13					2.29	2.7	0.7279
1800	2.45	2.13					2.31	2.5	0.7422
2400	2.45	2.13					2.31	2.5	0.7509



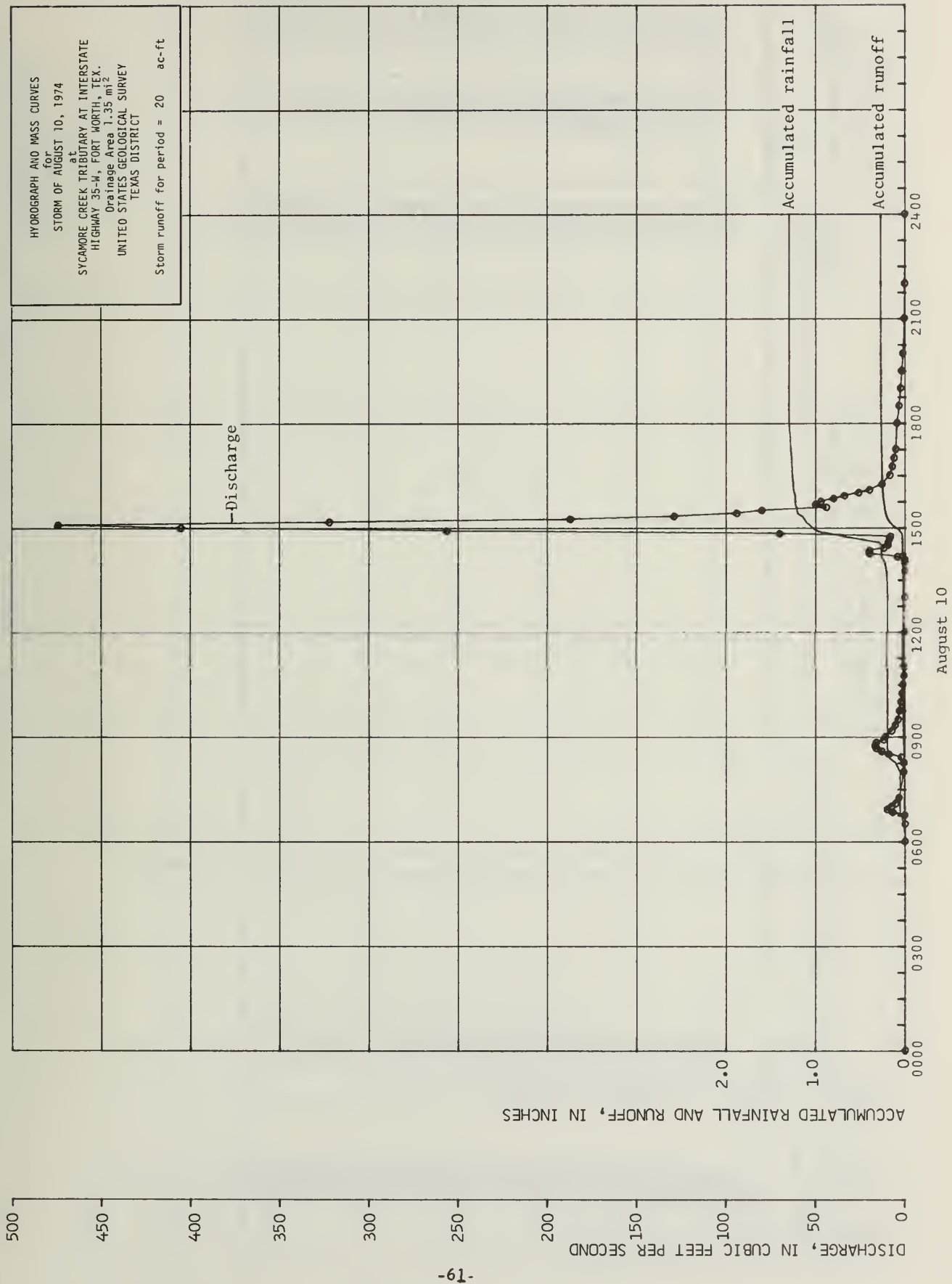
STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STATION NO. 08048540									
SYCAMORE CK TRIB AT INTERSTATE HWY 35-W. FT. WORTH, TEX. STORM OF JUNE 7, 1974									
DATE & TIME	1-ST	2-ST						ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN FT ³ /S
JUNE 7									
0000	0.0	0.0					0.0	0.1	0.0005
0800	0.0	0.0					0.0	0.1	0.0010
0900	0.01	0.01					0.01	0.1	0.0010
0915	0.34	0.34					0.36	8.6	0.0027
0920	0.44	0.45					0.44	327.0	0.0340
0925	0.45	0.54					0.49	209.0	0.0540
0930	0.60	0.70					0.64	275.0	0.0803
0935	0.64	0.71					0.67	312.0	0.1101
0940	0.65	0.71					0.68	273.0	0.1362
0945	0.65	0.71					0.68	194.0	0.1548
0950	0.65	0.71					0.68	94.0	0.1638
0955	0.65	0.71					0.68	49.0	0.1685
1000	0.66	0.71					0.68	30.0	0.1713
1005	0.66	0.72					0.69	24.0	0.1736
1010	0.67	0.74					0.70	18.0	0.1762
1020	0.69	0.76					0.72	16.0	0.1793
1030	0.69	0.76					0.72	14.0	0.1826
1045	0.69	0.76					0.72	8.9	0.1852
1100	0.69	0.76					0.72	6.2	0.1869
1115	0.71	0.76					0.73	4.4	0.1882
1130	0.71	0.76					0.73	3.4	0.1892
1145	0.71	0.76					0.73	2.9	0.1900
1200	0.71	0.76					0.73	2.3	0.1910
1230	0.71	0.76					0.73	1.5	0.1919
1300	0.71	0.76					0.73	1.0	0.1927
1400	0.71	0.76					0.73	0.4	0.1934
1545	0.71	0.76					0.73	0.3	0.1938
1600	0.77	0.79					0.78	0.3	0.1939
1605	0.82	0.81					0.82	0.8	0.1939
1610	0.90	0.90					0.90	2.0	0.1941
1615	1.15	1.31					1.22	5.3	0.1946
1620	1.55	1.75					1.64	11.0	0.1957
1625	1.62	1.95					1.77	127.0	0.2078
1630	1.64	1.96					1.78	368.0	0.2430
1635	1.64	1.96					1.78	537.0	0.2944
1640	1.64	1.96					1.78	674.0	0.3589
1645	1.64	1.96					1.78	452.0	0.4021
1650	1.64	1.96					1.78	238.0	0.4249
1655	1.64	1.96					1.78	91.0	0.4336

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STATION NO. 08048540									
SYCAMORE CK TRIBUTARY AT INTERSTATE HWY 35-W, FT. WORTH, TEX. STORM OF JUNE 7, 1974									
DATE & TIME	GAGE		NUMBER		ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN	FT ³ /S	ACCUM. RUNOFF IN.	
	1-ST	2-ST	1	2					
JUNE 7									
1700	1.64	1.96			1.78	64.0		0.4428	
1710	1.64	1.96			1.78	33.0		0.4491	
1720	1.64	1.96			1.78	19.0		0.4527	
1730	1.64	1.96			1.78	12.0		0.4556	
1745	1.64	1.96			1.78	9.4		0.4583	
1800	1.64	1.96			1.78	7.5		0.4615	
1830	1.64	1.96			1.78	4.9		0.4643	
1900	1.64	1.96			1.78	3.8		0.4676	
2000	1.64	1.96			1.78	2.3		0.4716	
2200	1.64	1.96			1.78	1.2		0.4743	
2400	1.64	1.96			1.78	0.6		0.4750	



STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
SYCAMORE CK TRIB AT INTERSTATE HWY 35-W, FT. WORTH, TEX. STORM OF AUGUST 10, 1974									
DATE & TIME	G A G E N U M B E R						ACCUM. WEIGHTED PRECIP.	DISCHARGE IN	ACCUM. RUNOFF
	1-ST	2-ST					IN.	FT ³ /S	IN.
AUG. 10									
0000	0.0	0.0					0.0	0.0	0.0001
0600	0.0	0.0					0.0	0.0	0.0002
0630	0.02	0.02					0.02	0.0	0.0002
0645	0.03	0.06					0.04	0.3	0.0003
0650	0.04	0.0A					0.06	6.9	0.0009
0655	0.04	0.0A					0.06	10.0	0.0019
0700	0.04	0.0A					0.06	7.5	0.0026
0705	0.04	0.0A					0.06	5.3	0.0034
0715	0.04	0.0A					0.06	3.4	0.0052
0800	0.04	0.0A					0.06	0.8	0.0057
0815	0.10	0.11					0.10	0.7	0.0058
0825	0.18	0.19					0.18	2.1	0.0061
0830	0.19	0.20					0.19	9.1	0.0070
0835	0.20	0.20					0.20	13.0	0.0082
0840	0.20	0.20					0.20	16.0	0.0098
0845	0.20	0.20					0.20	17.0	0.0114
0850	0.20	0.20					0.20	16.0	0.0129
0855	0.20	0.20					0.20	12.0	0.0141
0900	0.20	0.20					0.20	11.0	0.0157
0910	0.20	0.20					0.20	7.5	0.0171
0920	0.20	0.20					0.20	5.6	0.0182
0930	0.20	0.20					0.20	4.0	0.0191
0945	0.20	0.20					0.20	3.2	0.0200
1000	0.20	0.20					0.20	2.5	0.0208
1015	0.20	0.20					0.20	1.9	0.0213
1030	0.20	0.20					0.20	1.4	0.0217
1045	0.20	0.20					0.20	0.8	0.0219
1100	0.20	0.20					0.20	0.6	0.0224
1200	0.20	0.20					0.20	0.3	0.0227
1300	0.20	0.20					0.20	0.2	0.0229
1345	0.22	0.20					0.21	0.2	0.0230
1400	0.23	0.23					0.23	0.2	0.0231
1405	0.23	0.27					0.25	0.3	0.0231
1410	0.24	0.30					0.27	4.4	0.0235
1415	0.24	0.30					0.27	20.0	0.0254
1420	0.24	0.30					0.27	20.0	0.0274
1425	0.24	0.30					0.27	12.0	0.0285
1430	0.24	0.30					0.27	9.6	0.0294
1435	0.26	0.33					0.29	9.6	0.0303

STORM RAINFALL AND RUNOFF RECORD									
STA. NO. 08048540									
SYCAMORE CK TRIB AT INTERSTATE HWY 35-W, FT. WORTH, TEX.									
STORM OF AUGUST 10, 1974									
DATE & TIME	G A G E			N U M B E R			P R E C I P .		
	1-ST	2-ST					FT ³ /S	IN.	IN.
AUG. 10									
1440	0.46	0.49					8.9	0.47	0.0312
1445	0.64	0.67					8.2	0.65	0.0320
1450	0.76	0.91					70.0	0.83	0.0387
1455	0.95	1.02					256.0	0.98	0.0632
1500	1.02	1.05					405.0	1.03	0.1019
1505	1.05	1.08					474.0	1.06	0.1472
1510	1.11	1.10					322.0	1.11	0.1780
1515	1.13	1.12					187.0	1.13	0.1959
1520	1.15	1.14					129.0	1.15	0.2083
1525	1.23	1.16					94.0	1.20	0.2173
1530	1.24	1.17					80.0	1.21	0.2249
1535	1.24	1.17					44.0	1.21	0.2291
1540	1.26	1.14					50.0	1.22	0.2339
1545	1.26	1.18					47.0	1.22	0.2384
1550	1.26	1.18					40.0	1.22	0.2422
1555	1.26	1.18					34.0	1.22	0.2455
1600	1.27	1.19					26.0	1.23	0.2480
1605	1.28	1.20					20.0	1.24	0.2508
1615	1.28	1.21					13.0	1.25	0.2539
1630	1.29	1.22					8.6	1.26	0.2564
1645	1.29	1.23					7.3	1.26	0.2585
1700	1.29	1.24					6.2	1.27	0.2603
1715	1.30	1.25					5.4	1.28	0.2634
1800	1.32	1.27					4.7	1.30	0.2667
1830	1.32	1.27					3.5	1.30	0.2688
1900	1.32	1.27					2.7	1.30	0.2703
1930	1.32	1.27					2.1	1.30	0.2715
2000	1.32	1.27					1.4	1.30	0.2727
2100	1.32	1.27					0.6	1.30	0.2734
2200	1.32	1.27					0.4	1.30	0.2742
2400	1.32	1.27					0.3	1.30	0.2745



STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO.	EST. OF RUNOFF FROM SFM. S. SHOP. CENTER, FT WORTH, TEX. STORM OF OCTOBER 11, 1973								
DATE & TIME	G A G E		N U M B E R		W E I G H T E D		D I S C H A R G E		A C C U M .
	2-ST				P R E C I P .		I N	F T ³ / S	I N .
OCT. 11									
0000	0.0					0.0		0.0	0.0
0430	0.04					0.04		0.0	0.0
0435	0.16					0.16		0.0	0.0
0440	0.62					0.62		19.0	0.0065
0445	0.87					0.87		246.0	0.0901
0450	1.16					1.16		265.0	0.1801
0455	1.29					1.29		311.0	0.2858
0500	1.38					1.38		427.0	0.4309
0505	1.44					1.44		418.0	0.5729
0510	1.50					1.50		405.0	0.7106
0515	1.56					1.56		385.0	0.8414
0520	1.61					1.61		375.0	0.9688
0525	1.64					1.64		279.0	1.0636
0530	1.65					1.65		161.0	1.1184
0535	1.65					1.65		136.0	1.1646
0540	1.66					1.66		92.0	1.1958
0545	1.67					1.67		51.0	1.2132
0550	1.67					1.67		33.0	1.2244
0555	1.68					1.68		23.0	1.2322
0600	1.69					1.69		19.0	1.2451
0615	1.70					1.70		10.0	1.2553
0630	1.72					1.72		6.0	1.2645
0700	1.77					1.77		4.0	1.2767
0800	1.90					1.90		7.0	1.2981
0830	2.01					2.01		12.0	1.3165
0845	2.09					2.09		21.0	1.3379
0900	2.12					2.12		13.0	1.3710
1000	2.13					2.13		0.5	1.3730
1100	2.13					2.13		0.0	1.3730
2400	2.13					2.13		0.0	1.3730

DISCHARGE, IN CUBIC FEET PER SECOND

ACCUMULATED RAINFALL AND RUNOFF, IN INCHES

Discharge

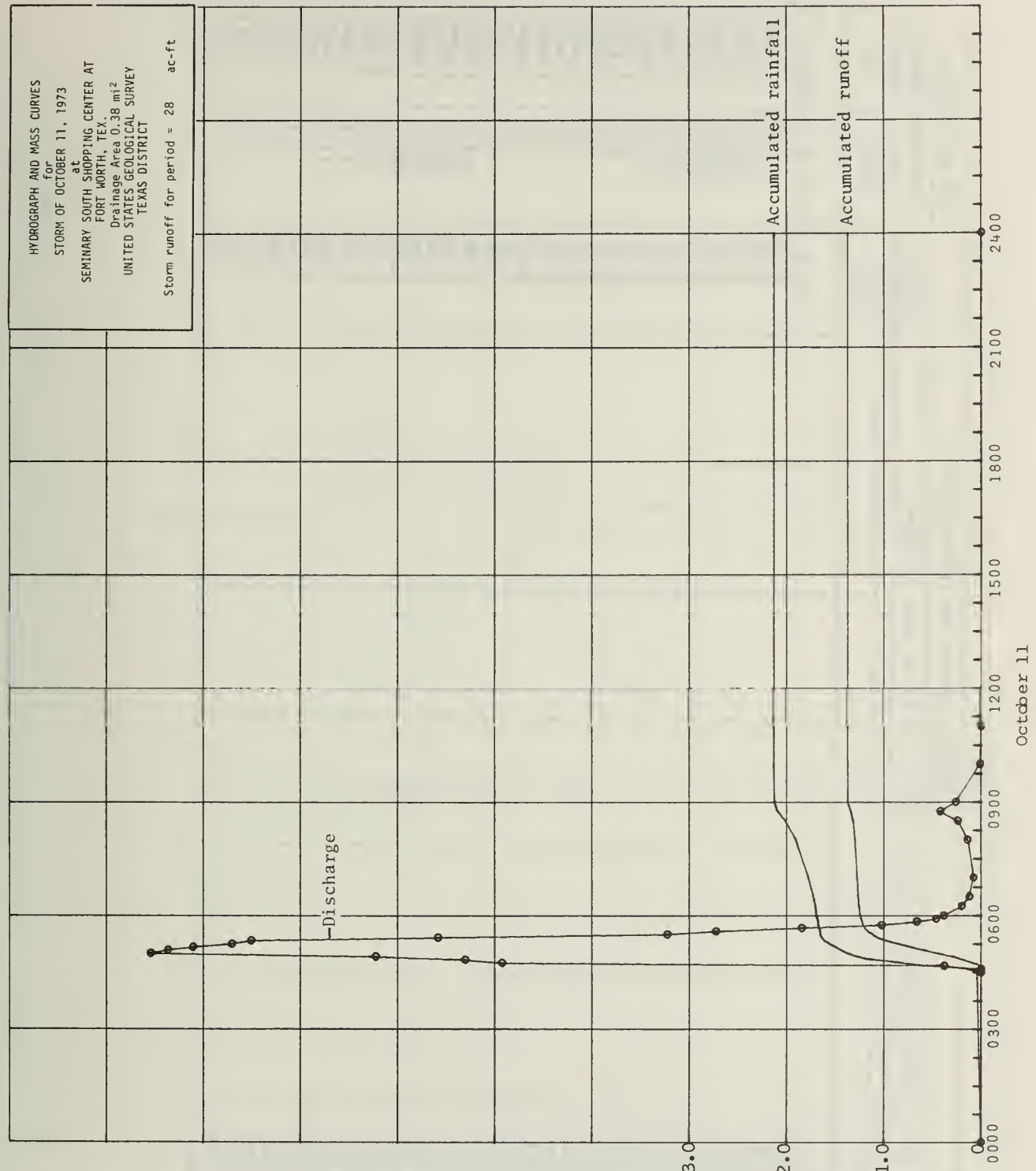
Accumulated rainfall

Accumulated runoff

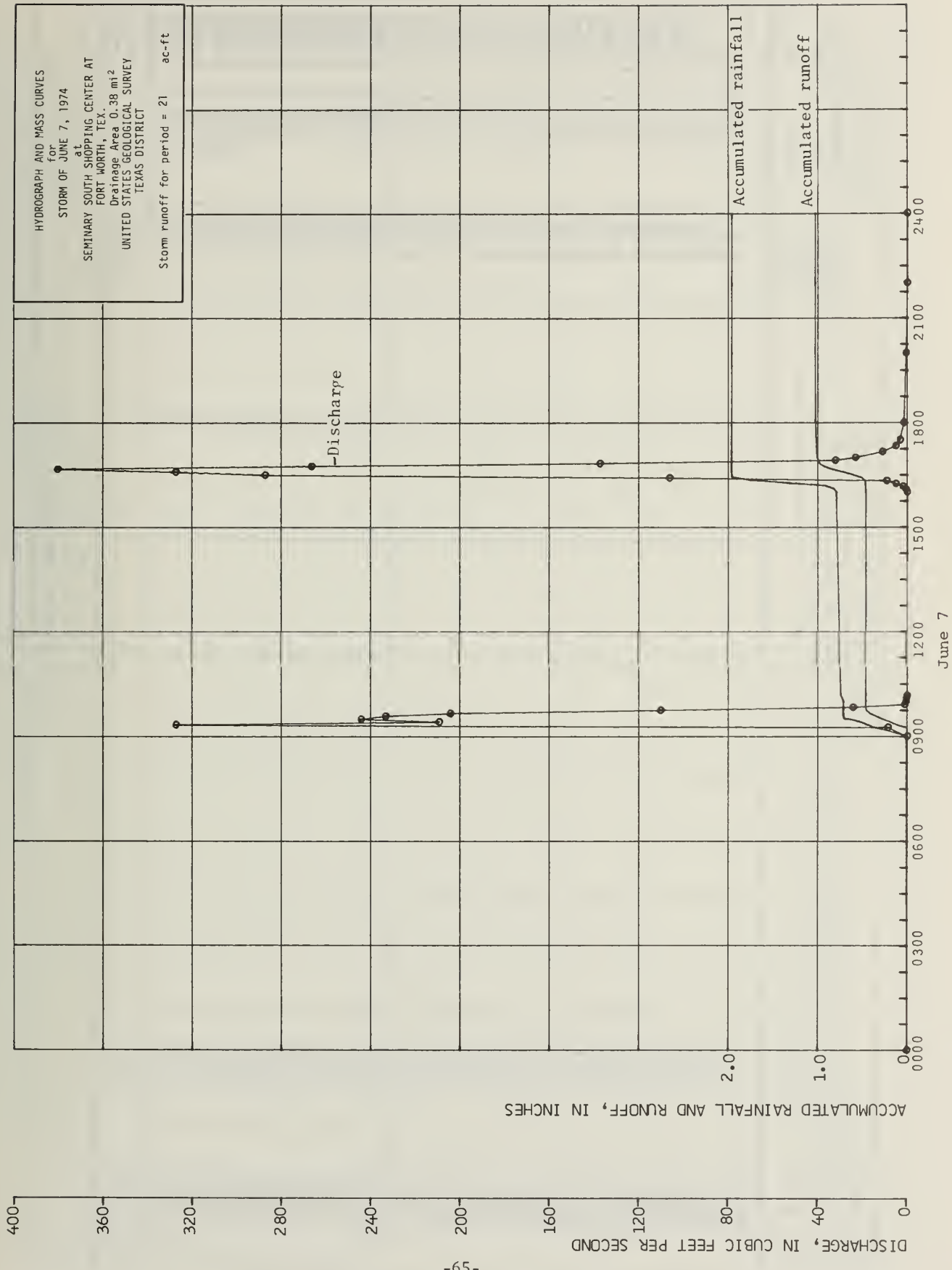
October 11

HYDROGRAPH AND MASS CURVES
for
STORM OF OCTOBER 11, 1973
at
SEMINARY SOUTH SHOPPING CENTER AT
FORT WORTH, TEX.
Drainage Area 0.38 mi²
UNITED STATES GEOLOGICAL SURVEY
TEXAS DISTRICT

Storm runoff for period = 28 ac-ft

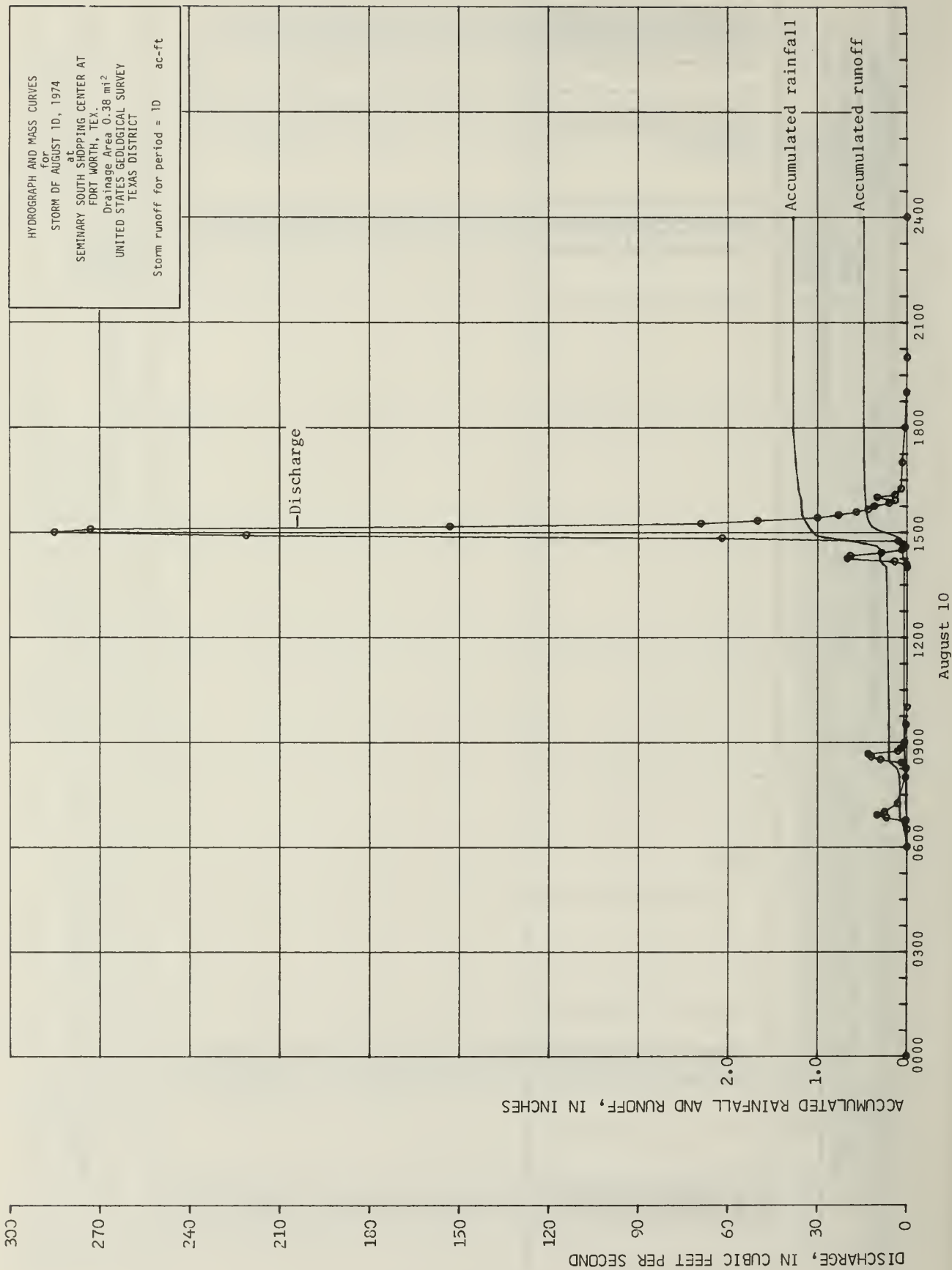


STORM RAINFALL AND RUNOFF RECORD									
STA. NO.		1974 WATER YEAR							
EST. OF RUNOFF FROM SEM. S. SHOP. CENTER, FT WORTH, TEX. STORM OF JUNE 7, 1974									
DATE & TIME	2-ST	GAGE	NUMBER	PRECIP.	FT ³ /S	IN.	DISCHARGE	ACCUM.	RUNOFF
				IN.			IN		
JUNE 7									
0000	0.0			0.0		0.0	0.0	0.0	0.0
0900	0.01			0.01		0.0	0.0	0.0	0.0
0915	0.38			0.38		8.5	8.5	0.0058	0.0058
0920	0.45			0.45		327.0	327.0	0.1169	0.1169
0925	0.54			0.54		209.0	209.0	0.1879	0.1879
0930	0.70			0.70		244.0	244.0	0.2708	0.2708
0935	0.71			0.71		233.0	233.0	0.3500	0.3500
0940	0.71			0.71		204.0	204.0	0.4193	0.4193
0945	0.71			0.71		110.0	110.0	0.4567	0.4567
0950	0.71			0.71		24.0	24.0	0.4649	0.4649
0955	0.71			0.71		1.0	1.0	0.4652	0.4652
1000	0.71			0.71		0.5	0.5	0.4654	0.4654
1005	0.72			0.72		0.3	0.3	0.4655	0.4655
1010	0.74			0.74		0.0	0.0	0.4655	0.4655
1600	0.79			0.79		0.0	0.0	0.4655	0.4655
1605	0.81			0.81		0.5	0.5	0.4657	0.4657
1610	0.90			0.90		1.8	1.8	0.4663	0.4663
1615	1.31			1.31		5.1	5.1	0.4680	0.4680
1620	1.75			1.75		9.1	9.1	0.4711	0.4711
1625	1.95			1.95		106.0	106.0	0.5071	0.5071
1630	1.96			1.96		287.0	287.0	0.6046	0.6046
1635	1.96			1.96		327.0	327.0	0.7158	0.7158
1640	1.96			1.96		380.0	380.0	0.8449	0.8449
1645	1.96			1.96		266.0	266.0	0.9353	0.9353
1650	1.96			1.96		137.0	137.0	0.9818	0.9818
1655	1.96			1.96		32.0	32.0	0.9927	0.9927
1700	1.96			1.96		23.0	23.0	1.0044	1.0044
1710	1.96			1.96		11.0	11.0	1.0119	1.0119
1720	1.96			1.96		5.0	5.0	1.0153	1.0153
1730	1.96			1.96		3.1	3.1	1.0195	1.0195
1800	1.96			1.96		1.5	1.5	1.0272	1.0272
2000	1.96			1.96		0.5	0.5	1.0313	1.0313
2200	1.96			1.96		0.0	0.0	1.0313	1.0313
2400	1.96			1.96		0.0	0.0	1.0313	1.0313



STORM RAINFALL AND RUNOFF RECORD										1974 WATER YEAR	
STA. NO.	EST. OF RUNOFF FROM SEM. S. SHOP. CENTER, FT WORTH, TEX. STORM OF AUG. 10, 1974									DISCHARGE	ACCUM.
DATE & TIME	G A G E N U M B E R									IN	RUNOFF
	2-ST									FT ³ /S	IN.
AUG. 10											
0000	0.0								0.0	0.0	0.0
0600	0.0								0.0	0.0	0.0
0630	0.02								0.02	0.0	0.0
0645	0.06								0.06	0.3	0.0002
0650	0.08								0.08	6.9	0.0025
0655	0.08								0.08	10.0	0.0059
0700	0.08								0.08	7.5	0.0110
0715	0.08								0.08	3.1	0.0174
0800	0.08								0.08	0.5	0.0184
0815	0.11								0.11	0.3	0.0186
0825	0.19								0.19	1.8	0.0196
0830	0.20								0.20	8.9	0.0226
0835	0.20								0.20	12.0	0.0267
0840	0.20								0.20	13.0	0.0311
0845	0.20								0.20	3.0	0.0321
0850	0.20								0.20	2.0	0.0328
0855	0.20								0.20	1.0	0.0331
0900	0.20								0.20	0.8	0.0341
0930	0.20								0.20	0.3	0.0347
1000	0.20								0.20	0.0	0.0347
1400	0.23								0.23	0.0	0.0347
1405	0.27								0.27	0.2	0.0347
1410	0.30								0.30	4.2	0.0362
1415	0.30								0.30	20.0	0.0430
1420	0.30								0.30	19.0	0.0494
1425	0.30								0.30	8.6	0.0523
1430	0.30								0.30	1.7	0.0529
1435	0.33								0.33	0.5	0.0531
1440	0.49								0.49	1.5	0.0536
1445	0.67								0.67	3.0	0.0546
1450	0.91								0.91	62.0	0.0757
1455	1.02								1.02	221.0	0.1508
1500	1.05								1.05	285.0	0.2476
1505	1.08								1.08	273.0	0.3404
1510	1.10								1.10	153.0	0.3924
1515	1.12								1.12	69.0	0.4159
1520	1.14								1.14	50.0	0.4328
1525	1.16								1.16	30.0	0.4430
1530	1.17								1.17	23.0	0.4509

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO.									
EST. OF RUNOFF FROM SEM. S. SHOP. CENTER, FT WORTH, TEX. STORM OF AUG. 10, 1974									
DATE & TIME	G A G E N U M B E R			ACCUM. WEIGHTED PRECIP.		DISCHARGE IN		ACCUM. RUNOFF	
	2-ST				IN.	FT ³ /S			IN.
AUG. 10									
1535	1.17				1.17	17.0			0.4566
1540	1.18				1.18	13.0			0.4611
1545	1.18				1.18	11.0			0.4648
1550	1.18				1.18	6.0			0.4668
1555	1.18				1.18	4.0			0.4682
1600	1.19				1.19	10.0			0.4716
1605	1.20				1.20	4.0			0.4736
1615	1.21				1.21	2.0			0.4774
1700	1.24				1.24	1.6			0.4831
1800	1.27				1.27	0.7			0.4859
1900	1.27				1.27	0.1			0.4863
2000	1.27				1.27	0.0			0.4863
2400	1.27				1.27	0.0			0.4863



STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STATION NO. 08048600									
DRY BRANCH AT FAIN STREET, FORT WORTH, TEX.									
STORM OF OCTOBER 12-13, 1973									
G A G E N U M B E R									
DATE & TIME	1-DB	2-DB					ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN FT ³ /S	ACCUM. RUNOFF IN.
OCT. 12									
0000	0.0	0.0					0.0	0.9	0.0058
1745	0.0	0.0					0.0	0.2	0.0072
1800	0.07	0.04					0.05	0.2	0.0072
1830	0.08	0.06					0.07	0.1	0.0073
1900	0.22	0.20					0.21	1.9	0.0078
1915	0.24	0.20					0.22	7.6	0.0092
1930	0.40	0.40					0.40	8.0	0.0106
1945	0.68	0.52					0.60	38.0	0.0175
2000	1.02	0.56					0.79	54.0	0.0272
2015	1.20	0.70					0.95	41.0	0.0346
2030	1.33	0.91					1.12	55.0	0.0445
2045	1.36	1.26					1.31	81.0	0.0591
2100	1.39	1.47					1.43	149.0	0.0859
2115	1.45	1.61					1.53	192.0	0.1205
2130	1.48	1.67					1.57	202.0	0.1569
2145	1.49	1.70					1.59	210.0	0.1948
2200	1.50	1.74					1.62	207.0	0.2321
2215	1.51	1.76					1.63	206.0	0.2692
2230	1.51	1.78					1.64	209.0	0.3068
2245	1.52	1.78					1.65	202.0	0.3432
2300	1.53	1.80					1.66	191.0	0.3777
2315	1.54	1.82					1.68	175.0	0.4092
2330	1.55	1.84					1.69	145.0	0.4353
2345	1.55	1.87					1.71	111.0	0.4553
2400	1.55	1.88					1.71	82.0	0.4664
OCT. 13									
0000	1.55	1.88					1.71	82.0	0.4664
0015	1.55	1.89					1.72	62.0	0.4813
0030	1.55	1.89					1.72	53.0	0.4908
0045	1.55	1.90					1.72	47.0	0.4993
0100	1.55	1.90					1.72	42.0	0.5106
0130	1.55	1.90					1.72	32.0	0.5222
0200	1.55	1.90					1.72	27.0	0.5368
0300	1.62	1.93					1.77	19.0	0.5470
0330	1.63	1.95					1.79	17.0	0.5532
0400	1.63	1.99					1.81	19.0	0.5600
0430	1.63	2.01					1.82	21.0	0.5676
0500	1.63	2.01					1.82	20.0	0.5784
0600	1.65	2.04					1.84	14.0	0.5935
0800	1.66	2.09					1.87	7.3	0.6093

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STATION NO. 08048600									
DRY BRANCH AT FAIN STREET, FORT WORTH, TEX.									
STORM OF OCTOBER 12-13, 1973									
G A G E N U M B E R									
DATE & TIME									
1-DB 2-DB									
OCT. 13									
1200									
1800									
2400									
ACCUM. WEIGHTED PRECIP. IN. FT ³ /S IN.									
DISCHARGE IN ACCUM. RUNOFF									
1.68	2.15						1.91	3.2	0.6208
1.68	2.15						1.91	1.9	0.6290
1.68	2.15						1.91	1.3	0.6319

250

225

200

175

150

-17-

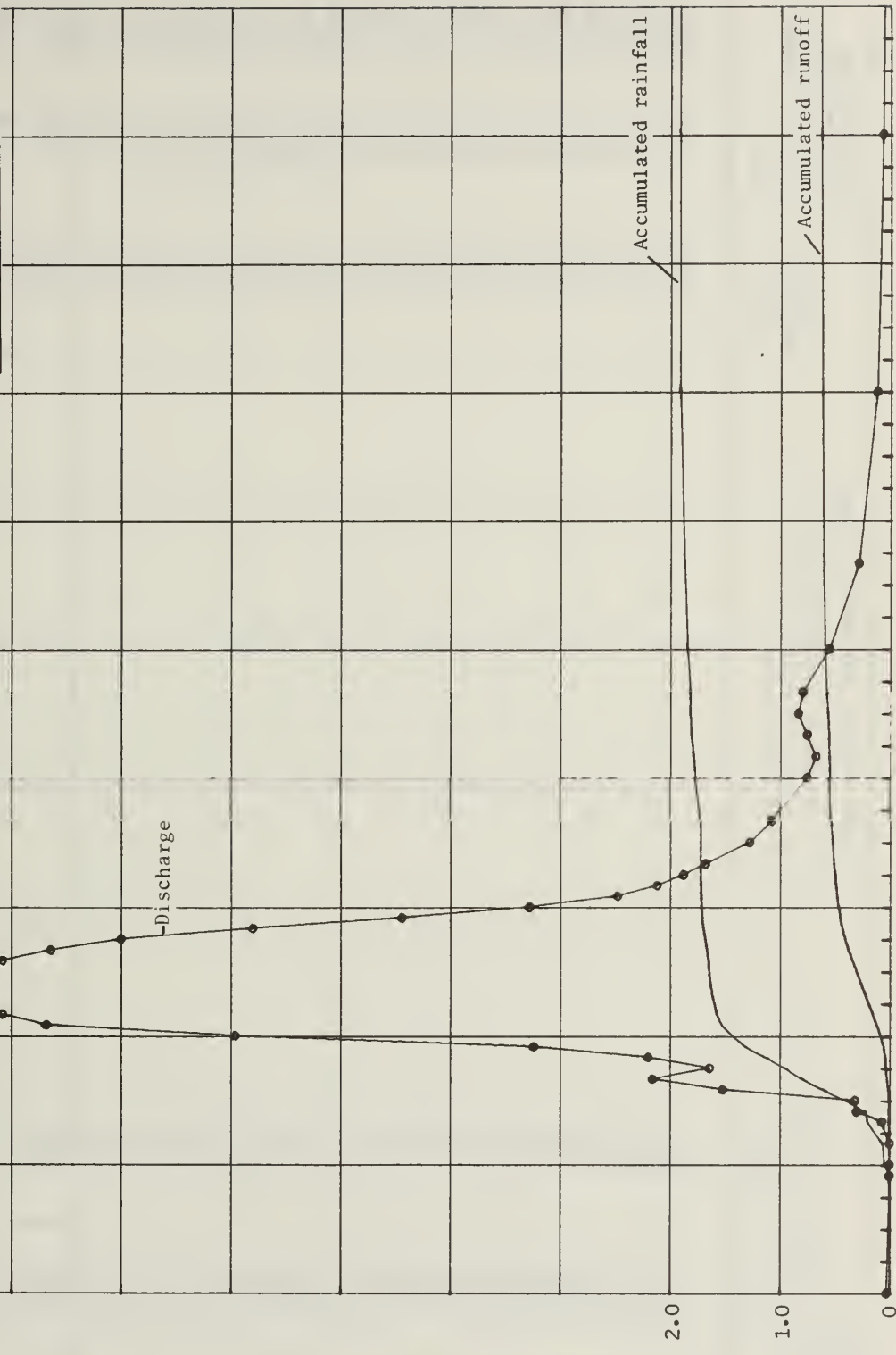
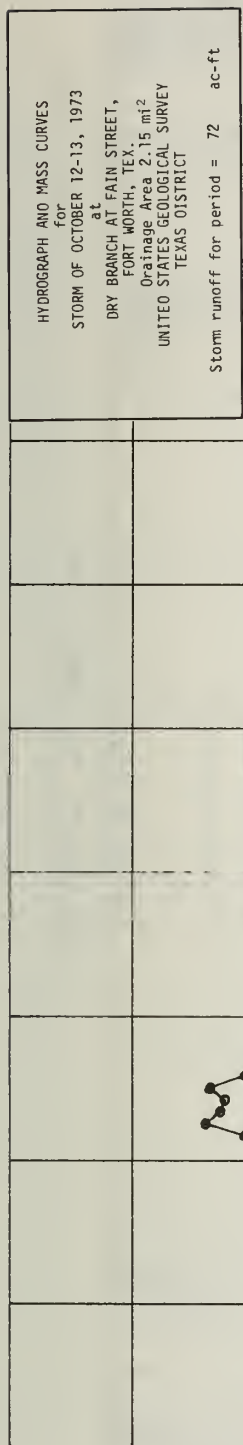
DISCHARGE, IN CUBIC FEET PER SECOND

ACCUMULATED RAINFALL AND RUNOFF, IN INCHES

October 12

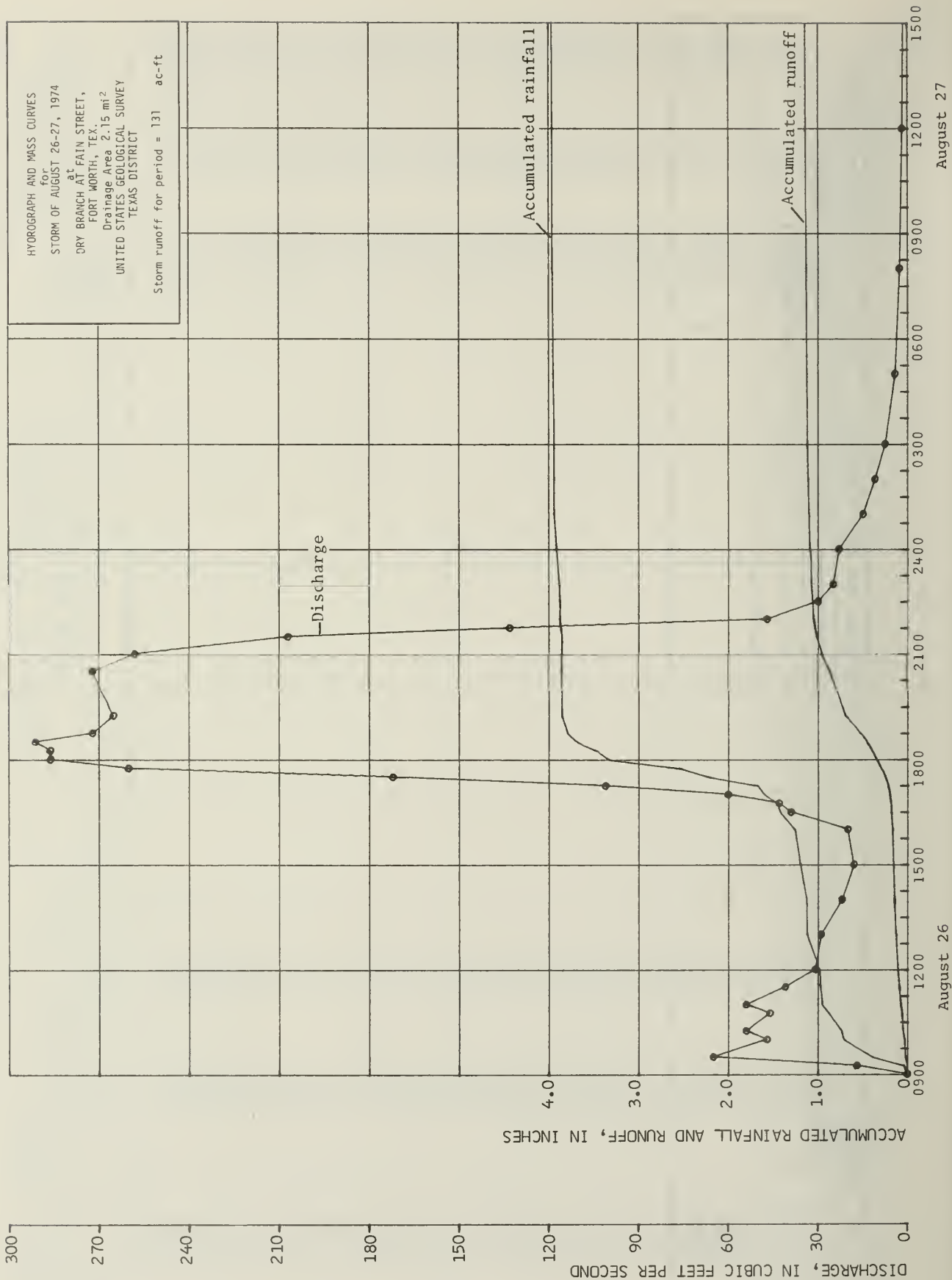
October 13

1500 1800 2100 2400 2700 3000 3300 3600 3900 4200 4500 4800 5100 5400 5700 6000 6300 6600 6900 7200 7500 7800 8100 8400 8700 9000 9300 9600 9900 10200 10500 10800 11100 11400 11700 12000 12300 12600 12900 13200 13500 13800 14100 14400 14700 15000 15300 15600 15900 16200 16500 16800 17100 17400 17700 18000 18300 18600 18900 19200 19500 19800 20100 20400 20700 21000

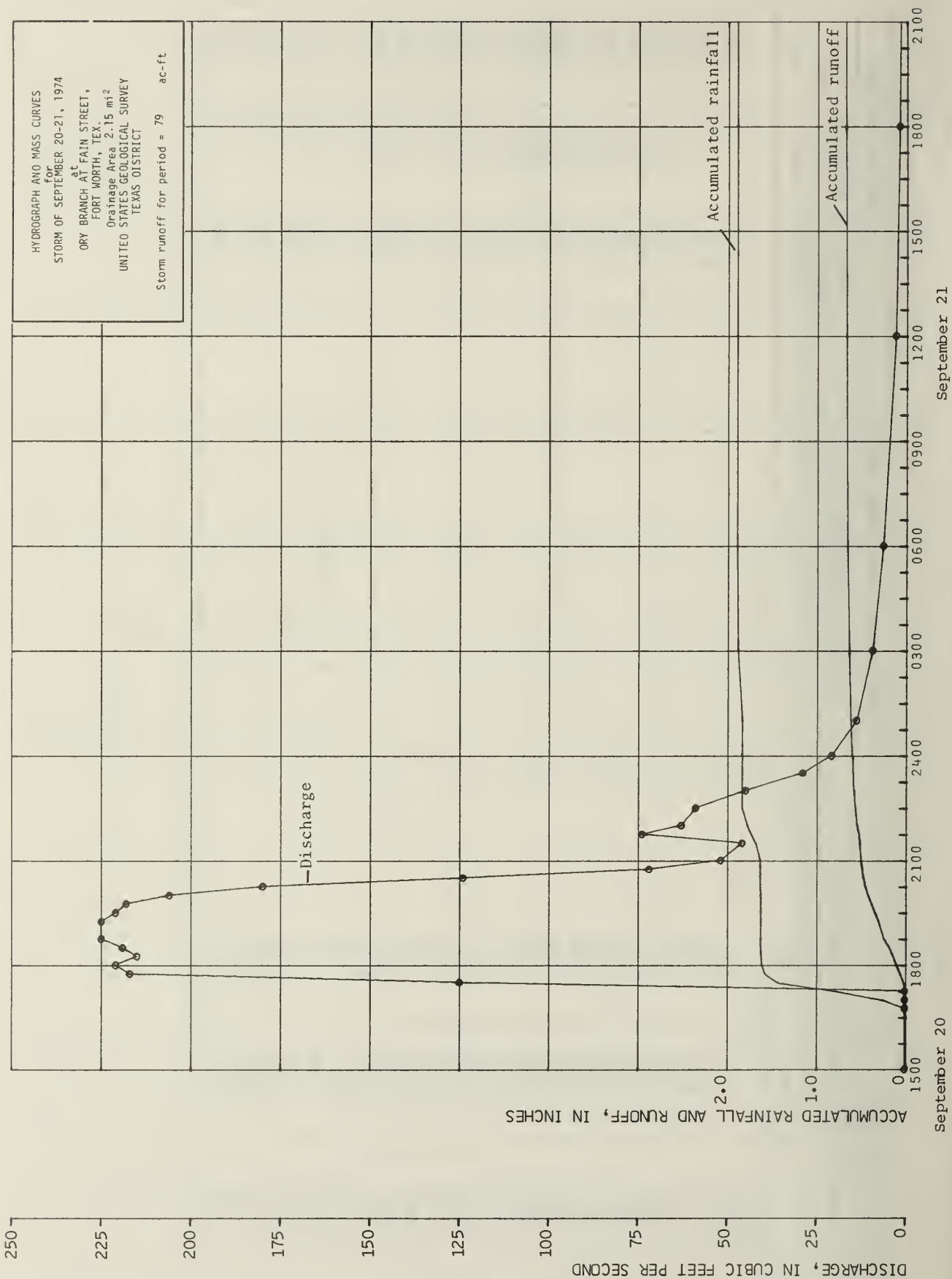


STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048600									
DRY BRANCH AT FAIN STREET, FORT WORTH, TEX.									
STORM OF AUGUST 26-27, 1974									
DATE & TIME	G A G E				ACCUM. WEIGHTED PRECIP.	DISCHARGE			
	1-DB	2-DB				IN	FT ³ /S	IN	ACCUM. RUNOFF
=====									
AUG. 26									
0000	0.0	0.0			0.0		0.1		0.0003
0900	0.0	0.0			0.0		0.1		0.0007
0915	0.04	0.04			0.04		17.0		0.0037
0930	0.38	0.40			0.39		65.0		0.0213
1000	0.70	0.73			0.71		47.0		0.0340
1015	0.72	0.76			0.74		54.0		0.0486
1045	0.86	0.90			0.88		46.0		0.0610
1100	0.93	0.98			0.95		54.0		0.0756
1130	0.95	1.00			0.97		41.0		0.0904
1200	0.96	1.01			0.98		31.0		0.1071
1300	1.10	1.15			1.12		29.0		0.1280
1400	1.10	1.16			1.13		22.0		0.1439
1500	1.17	1.23			1.20		18.0		0.1569
1600	1.23	1.29			1.26		20.0		0.1677
1630	1.39	1.46			1.42		39.0		0.1782
1645	1.42	1.49			1.45		43.0		0.1860
1700	1.56	1.64			1.60		60.0		0.1968
1715	1.63	1.71			1.67		101.0		0.2150
1730	2.16	2.27			2.21		172.0		0.2460
1745	2.47	2.59			2.53		260.0		0.2928
1800	3.25	3.41			3.33		286.0		0.3444
1815	3.38	3.55			3.46		286.0		0.3959
1830	3.59	3.77			3.68		291.0		0.4483
1845	3.70	3.88			3.79		272.0		0.5218
1915	3.76	3.95			3.85		265.0		0.6890
2030	3.76	3.95			3.85		272.0		0.8605
2100	3.76	3.95			3.85		258.0		0.9535
2130	3.76	3.95			3.85		207.0		1.0094
2145	3.77	3.96			3.86		133.0		1.0334
2200	3.78	3.97			3.87		47.0		1.0461
2230	3.78	3.97			3.87		30.0		1.0569
2300	3.79	3.98			3.88		25.0		1.0704
2400	3.82	4.01			3.91		23.0		1.0828
AUG. 27									
0000	3.82	4.01			3.91		23.0		1.0828
0100	3.84	4.04			3.94		15.0		1.0978
0200	3.84	4.04			3.94		11.0		1.1057
0300	3.84	4.04			3.94		7.6		1.1139
0500	3.85	4.05			3.95		4.3		1.1217
0800	3.86	4.06			3.96		2.8		1.1288
=====									

STA. NO. 08048600		STORM RAINFALL AND RUNOFF RECORD				1974 WATER YEAR			
DRY BRANCH AT FAIN STREET, FORT WORTH, TEX.		STORM OF AUGUST 26-27, 1974				DISCHARGE IN			
DATE & TIME		G A G E N U M B E R				ACCUM. WEIGHTED PRECIP. IN. FT ³ /S IN.			
		1-DB	2-DB						
AUG. 27									
1200		3.86	4.06			3.96	1.9	1.1356	
1800		3.87	4.07			3.97	1.3	1.1412	
2400		3.87	4.07			3.97	0.9	1.1432	

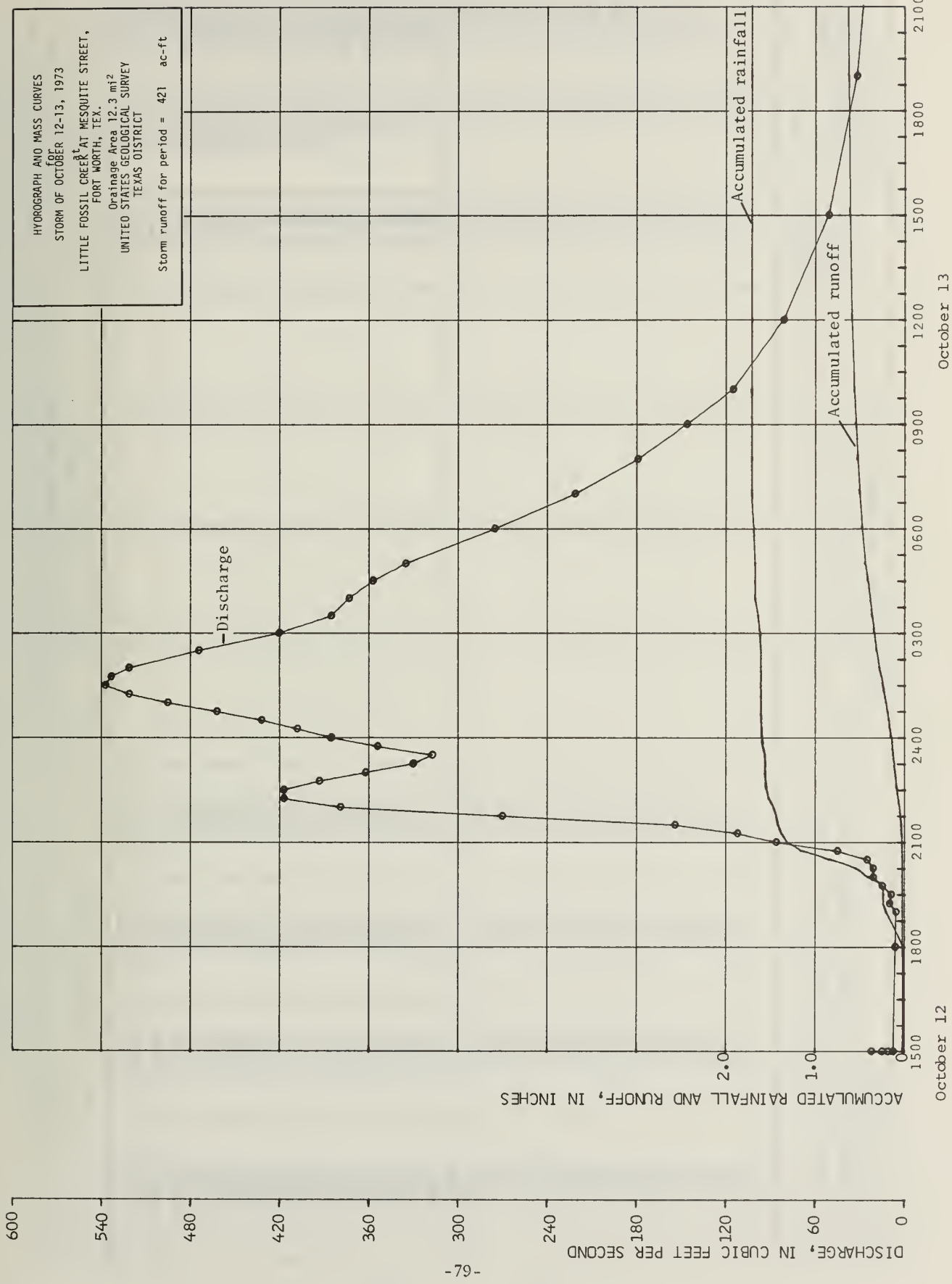


STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048600									
DRY BRANCH AT FAIN STREET, FORT WORTH, TEX.									
STORM OF SEPTEMBER 20-21, 1974									
DATE & TIME	G A G E				N U M B E R		ACCUM.		
	1-DB	2-DB					PRECIP.	DISCHARGE	IN. RUNOFF
							IN.	FT ³ /S	IN.
SEP. 20									
0000	0.0	0.0					0.0	0.4	0.0024
1645	0.0	0.0					0.0	0.4	0.0049
1700	0.49	0.02					0.25	0.4	0.0049
1715	0.98	0.56					0.77	0.4	0.0050
1730	1.43	1.44					1.43	125.0	0.0275
1745	1.51	1.65					1.58	217.0	0.0666
1800	1.58	1.65					1.61	221.0	0.1065
1815	1.60	1.65					1.62	215.0	0.1452
1830	1.60	1.66					1.63	219.0	0.1847
1845	1.60	1.66					1.63	225.0	0.2455
1915	1.60	1.66					1.63	225.0	0.3063
1930	1.60	1.66					1.63	221.0	0.3461
1945	1.60	1.66					1.63	218.0	0.3854
2000	1.60	1.66					1.63	206.0	0.4225
2015	1.60	1.67					1.63	180.0	0.4549
2030	1.60	1.67					1.63	124.0	0.4773
2045	1.60	1.67					1.63	72.0	0.4902
2100	1.60	1.67					1.63	52.0	0.5043
2130	1.60	1.77					1.68	46.0	0.5167
2145	1.60	1.87					1.73	74.0	0.5301
2200	1.60	1.96					1.78	63.0	0.5471
2230	1.60	2.08					1.84	59.0	0.5684
2300	1.60	2.08					1.84	45.0	0.5846
2330	1.60	2.08					1.84	29.0	0.5950
2400	1.60	2.08					1.84	21.0	0.6026
SEP. 21									
0000	1.60	2.08					1.84	21.0	0.6026
0100	1.60	2.08					1.84	14.0	0.6215
0300	1.65	2.13					1.89	9.6	0.6388
0600	1.65	2.15					1.90	6.6	0.6602
1200	1.65	2.15					1.90	3.2	0.6741
1800	1.65	2.15					1.90	2.2	0.6836
2400	1.65	2.15					1.90	1.7	0.6872



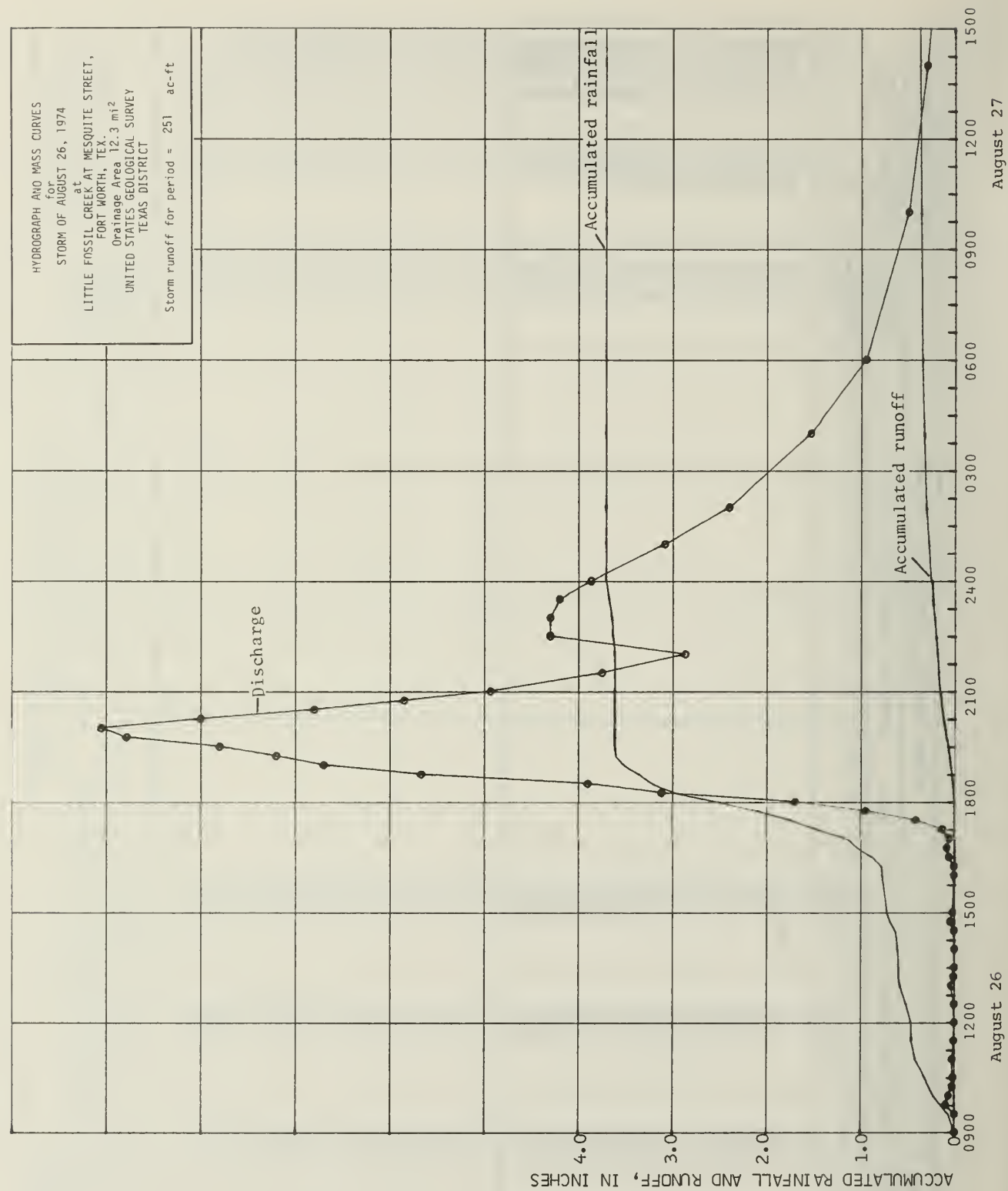
STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048850									
LITTLE FOSSIL CREEK AT MESQUITE STREET, FORT WORTH, TEX. STORM OF OCTOBER 12-13, 1973									
DATE & TIME	1-LF	2-LF	3-LF	G A G E	N U M B E R	WEIGHTED PRECIP. IN.	DISCHARGE IN	ACCUM. IN	RUNOFF IN.
OCT. 12									
0000	0.0	0.0	0.0			0.0	22.0	0.0042	
0300	0.0	0.0	0.0			0.0	15.0	0.0098	
0600	0.0	0.0	0.0			0.0	11.0	0.0161	
0900	0.0	0.0	0.0			0.0	7.5	0.0217	
1200	0.0	0.0	0.0			0.01	6.2	0.0245	
1500	0.31	0.15	0.15			0.20	5.8	0.0249	
1800	0.34	0.19	0.18			0.24	10.0	0.0252	
2100	0.35	0.19	0.18			0.24	8.9	0.0255	
2400	0.35	0.19	0.35			0.24	15.0	0.0260	
2700	0.51	0.36	0.44			0.41	21.0	0.0267	
3000	0.71	0.45	0.70			0.53	25.0	0.0273	
3300	1.08	0.72	1.00			0.83	45.0	0.0281	
3600	1.42	1.03	1.17			1.15	86.0	0.0295	
3900	1.56	1.21	1.25			1.31	112.0	0.0322	
4200	1.59	1.29	1.30			1.38	154.0	0.0358	
4500	1.61	1.34	1.32			1.42	270.0	0.0406	
4800	1.62	1.36	1.39			1.43	379.0	0.0491	
5100	1.66	1.39	1.40			1.47	417.0	0.0610	
5400	1.71	1.44	1.43			1.52	417.0	0.0742	
5700	1.73	1.47	1.44			1.54	393.0	0.0873	
6000	1.74	1.48	1.44			1.55	362.0	0.0997	
6300	1.75	1.49	1.44			1.56	330.0	0.1111	
6600	1.75	1.49	1.44			1.56	317.0	0.1215	
6900	1.76	1.52	1.47			1.58	354.0	0.1315	
7200	1.76	1.54	1.49			1.58	385.0	0.1426	
OCT. 13						1.59		0.1517	
0000	1.76	1.54	1.49			1.59	385.0	0.1517	
0300	1.77	1.54	1.49			1.60	408.0	0.1676	
0600	1.78	1.54	1.49			1.60	432.0	0.1812	
0900	1.79	1.54	1.49			1.60	462.0	0.1958	
1200	1.79	1.54	1.49			1.60	495.0	0.2113	
1500	1.79	1.54	1.49			1.60	521.0	0.2278	
1800	1.79	1.54	1.49			1.60	537.0	0.2447	
2100	1.79	1.54	1.49			1.60	533.0	0.2615	
2400	1.79	1.54	1.49			1.60	521.0	0.2861	
2700	1.79	1.54	1.49			1.60	474.0	0.3159	
3000	1.80	1.55	1.50			1.61	420.0	0.3424	
3300	1.82	1.57	1.52			1.63	385.0	0.3666	
3600	1.85	1.61	1.56			1.67	373.0	0.3901	

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048850									
LITTLE FOSSIL CREEK AT MESQUITE STREET, FORT WORTH, TEX. STORM OF OCTOBER 12-13, 1973									
DATE & TIME	1-LF	2-LF	3-LF	GAGE	N U M B E R	ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN	FT ³ /S	ACCUM. RUNOFF IN.
OCT. 13									
0430	1.85	1.61	1.56			1.67	357.0		0.4126
0500	1.85	1.61	1.56			1.67	335.0		0.4443
0600	1.87	1.62	1.57			1.68	275.0		0.4789
0700	1.89	1.65	1.60			1.71	221.0		0.5068
0800	1.89	1.65	1.60			1.71	179.0		0.5293
0900	1.89	1.65	1.60			1.71	146.0		0.5477
1000	1.89	1.65	1.60			1.71	115.0		0.5694
1200	1.89	1.65	1.60			1.71	81.0		0.5949
1500	1.89	1.65	1.60			1.71	51.0		0.6174
1900	1.89	1.65	1.60			1.71	32.0		0.6315
2200	1.89	1.65	1.60			1.71	26.0		0.6397
2400	1.89	1.65	1.60			1.71	22.0		0.6425

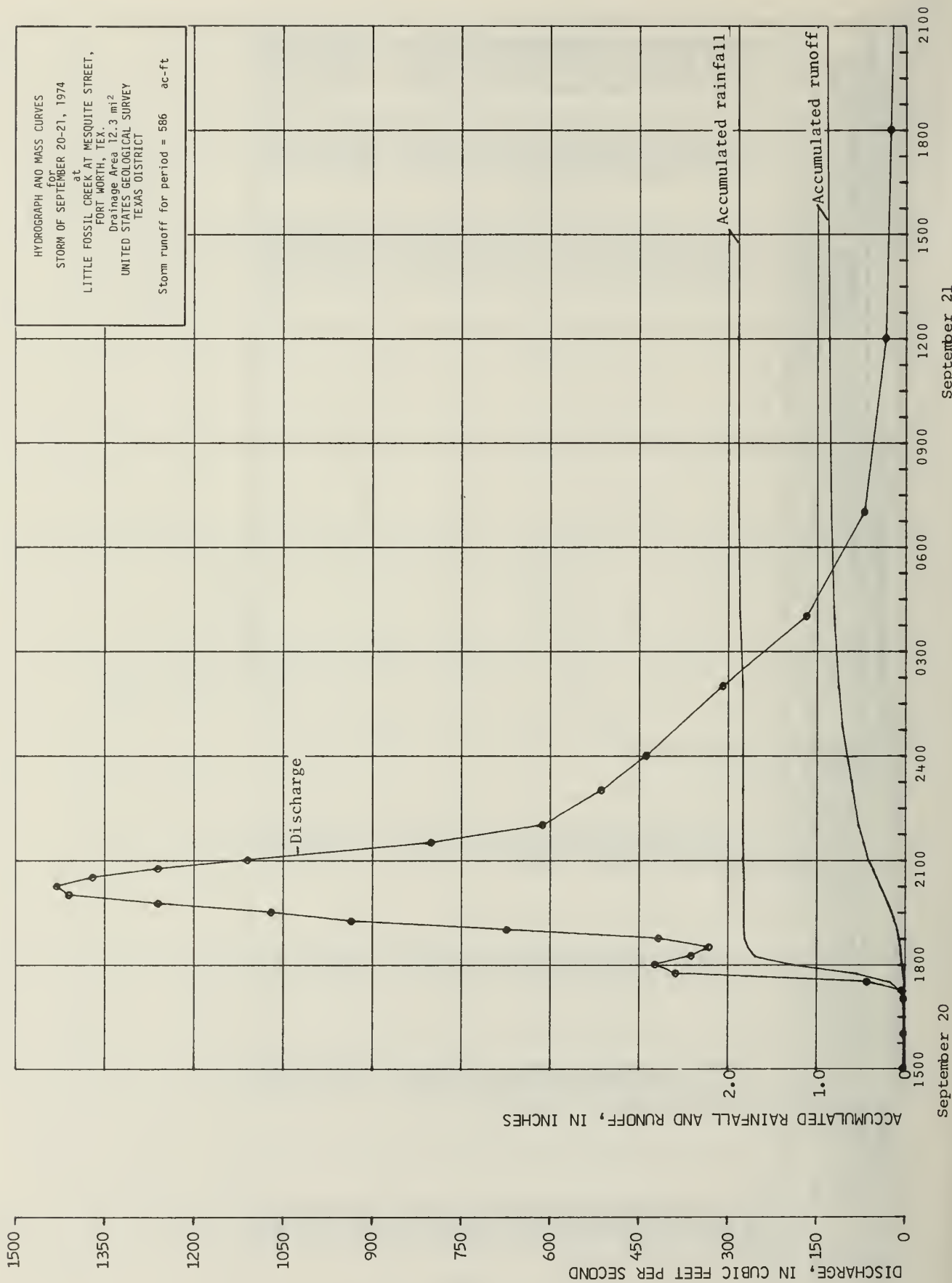


STORM RAINFALL AND RUNOFF RECORD										1974 WATER YEAR		
LITTLE FOSSIL CREEK AT MESQUITE STREET, FORT WORTH, TEX. STORM OF AUGUST 26, 1974												
DATE & TIME	G A G E N U M B E R						ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN	ACCUM. RUNOFF			
	1-LF	2-LF	3-LF									
AUG. 26												
0000	0.0	0.0	0.0				0.0	0.0	0.0			
0900	0.0	0.0	0.0				0.0	0.0	0.0			
0930	0.05	0.03	0.11				0.07	0.0	0.0			
0945	0.10	0.06	0.24				0.15	5.8	0.0002			
1000	0.20	0.14	0.30				0.23	3.9	0.0003			
1015	0.27	0.19	0.33				0.27	1.5	0.0004			
1030	0.30	0.25	0.37				0.32	1.0	0.0004			
1100	0.38	0.34	0.51				0.42	1.5	0.0005			
1130	0.42	0.41	0.53				0.46	0.6	0.0005			
1200	0.43	0.41	0.53				0.47	0.2	0.0005			
1230	0.48	0.45	0.60				0.52	0.4	0.0006			
1300	0.52	0.52	0.68				0.59	2.3	0.0007			
1315	0.55	0.54	0.68				0.60	0.7	0.0007			
1330	0.55	0.54	0.68				0.60	0.4	0.0007			
1400	0.56	0.55	0.69				0.61	0.2	0.0007			
1430	0.56	0.56	0.74				0.63	0.5	0.0008			
1445	0.63	0.56	0.82				0.69	3.0	0.0009			
1500	0.67	0.64	0.82				0.72	1.5	0.0010			
1600	0.74	0.69	0.86				0.78	0.7	0.0010			
1615	0.74	0.69	0.86				0.78	0.6	0.0010			
1630	0.80	0.69	1.05				0.87	3.9	0.0012			
1645	1.06	0.86	1.12				1.03	5.4	0.0013			
1700	1.10	0.98	1.27				1.14	3.6	0.0015			
1715	1.65	1.08	1.54				1.46	8.0	0.0017			
1730	1.88	1.42	1.82				1.74	25.0	0.0025			
1745	2.20	1.68	2.21				2.07	57.0	0.0043			
1800	2.77	1.93	2.63				2.50	102.0	0.0075			
1815	3.40	2.21	3.07				2.97	187.0	0.0134			
1830	3.57	2.67	3.24				3.21	234.0	0.0208			
1845	3.67	2.86	3.39				3.35	340.0	0.0315			
1900	3.82	3.04	3.55				3.51	402.0	0.0441			
1915	3.85	3.33	3.57				3.61	432.0	0.0577			
1930	3.86	3.35	3.57				3.61	468.0	0.0725			
1945	3.86	3.35	3.57				3.61	527.0	0.0891			
2000	3.86	3.35	3.57				3.61	543.0	0.1062			
2015	3.86	3.35	3.57				3.61	480.0	0.1213			
2030	3.86	3.35	3.57				3.61	408.0	0.1341			
2045	3.86	3.35	3.57				3.61	351.0	0.1452			
2100	3.86	3.35	3.57				3.61	296.0	0.1592			

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048850									
LITTLE FOSSIL CREEK AT MESQUITE STREET, FORT WORTH, TEX. STORM OF AUGUST 26, 1974									
DATE & TIME	G A G E			N U M B E R			ACCUM.		
	1-LF	2-LF	3-LF	1	2	3	WEIGHTED PRECIP.	FT ³ /S IN.	DISCHARGE IN ACCUM. RUNOFF IN.
AUG. 26									
2130	3.86	3.35	3.57				3.61	225.0	0.1734
2200	3.86	3.35	3.57				3.61	172.0	0.1842
2230	3.89	3.38	3.58				3.64	258.0	0.2004
2300	3.89	3.39	3.60				3.65	258.0	0.2167
2330	3.95	3.41	3.62				3.68	252.0	0.2326
2400	4.00	3.42	3.64				3.71	232.0	0.2472
AUG. 27									
0000	4.00	3.42	3.64				3.71	232.0	0.2472
0100	4.00	3.42	3.64				3.71	185.0	0.2778
0200	4.00	3.42	3.64				3.71	144.0	0.3050
0400	4.00	3.42	3.64				3.71	92.0	0.3282
0600	4.00	3.42	3.64				3.71	57.0	0.3497
1000	4.00	3.42	3.64				3.71	30.0	0.3648
1400	4.00	3.42	3.64				3.71	18.0	0.3739
1800	4.00	3.42	3.64				3.71	10.0	0.3802
2400	4.00	3.42	3.64				3.71	7.1	0.3829

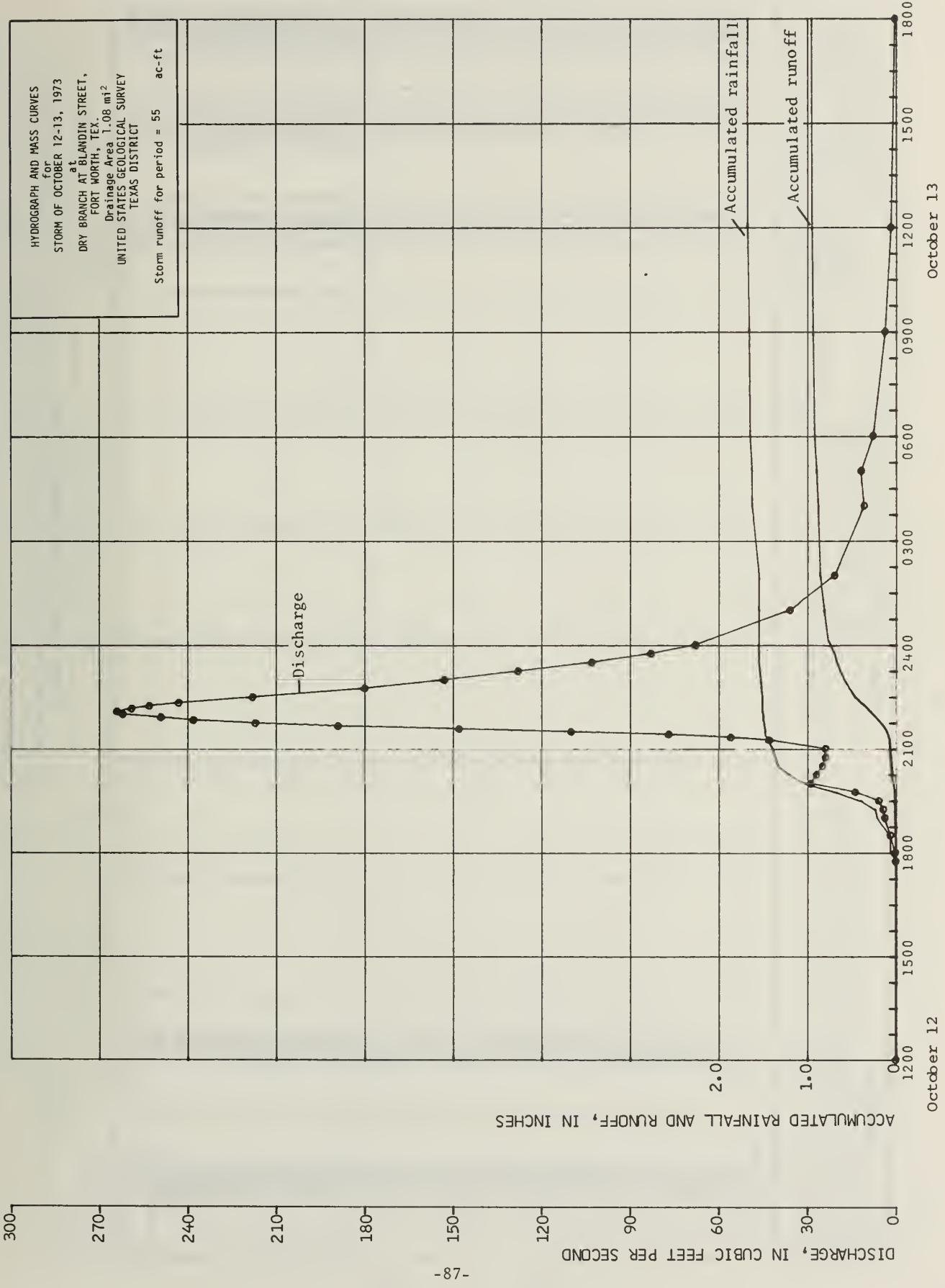


STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048850									
LITTLE FOSSIL CREEK AT MESQUITE STREET, FORT WORTH, TEX.									
STORM OF SEPTEMBER 20-21, 1974									
DATE & TIME	G A G E				PRECIP. IN.	DISCHARGE			
	1-LF	2-LF	3-LF			IN	FT ³ /S		IN.
SEP. 20									
0000	0.0	0.0	0.0		0.0	3.9		0.0039	
1600	0.0	0.0	0.0		0.0	3.0		0.0071	
1700	0.0	0.0	0.06		0.02	3.0		0.0074	
1715	0.0	0.0	0.14		0.06	6.2		0.0076	
1730	0.0	0.03	0.41		0.18	65.0		0.0096	
1745	0.11	0.30	1.07		0.55	388.0		0.0218	
1800	0.93	1.39	1.46		1.26	423.0		0.0352	
1815	1.50	2.18	1.58		1.70	362.0		0.0466	
1830	1.55	2.28	1.65		1.77	332.0		0.0570	
1845	1.56	2.36	1.69		1.81	417.0		0.0702	
1900	1.56	2.37	1.70		1.82	673.0		0.0914	
1915	1.56	2.37	1.70		1.82	935.0		0.1208	
1930	1.56	2.37	1.70		1.82	1070.0		0.1545	
1945	1.56	2.37	1.70		1.82	1260.0		0.1942	
2000	1.56	2.37	1.70		1.82	1410.0		0.2386	
2015	1.56	2.37	1.70		1.82	1430.0		0.2836	
2030	1.56	2.37	1.70		1.82	1370.0		0.3268	
2045	1.57	2.38	1.70		1.83	1260.0		0.3665	
2100	1.57	2.40	1.70		1.83	1110.0		0.4189	
2130	1.58	2.40	1.70		1.83	801.0		0.4694	
2200	1.58	2.40	1.70		1.83	613.0		0.5273	
2300	1.58	2.40	1.70		1.83	514.0		0.5920	
2400	1.58	2.40	1.70		1.83	438.0		0.6472	
SEP. 21									
0000	1.58	2.40	1.70		1.83	438.0		0.6472	
0200	1.58	2.40	1.71		1.84	309.0		0.7527	
0400	1.64	2.42	1.73		1.87	168.0		0.8056	
0700	1.65	2.44	1.75		1.89	71.0		0.8414	
1200	1.65	2.44	1.75		1.89	35.0		0.8656	
1800	1.65	2.44	1.75		1.89	27.0		0.8860	
2400	1.65	2.44	1.75		1.89	19.0		0.8932	



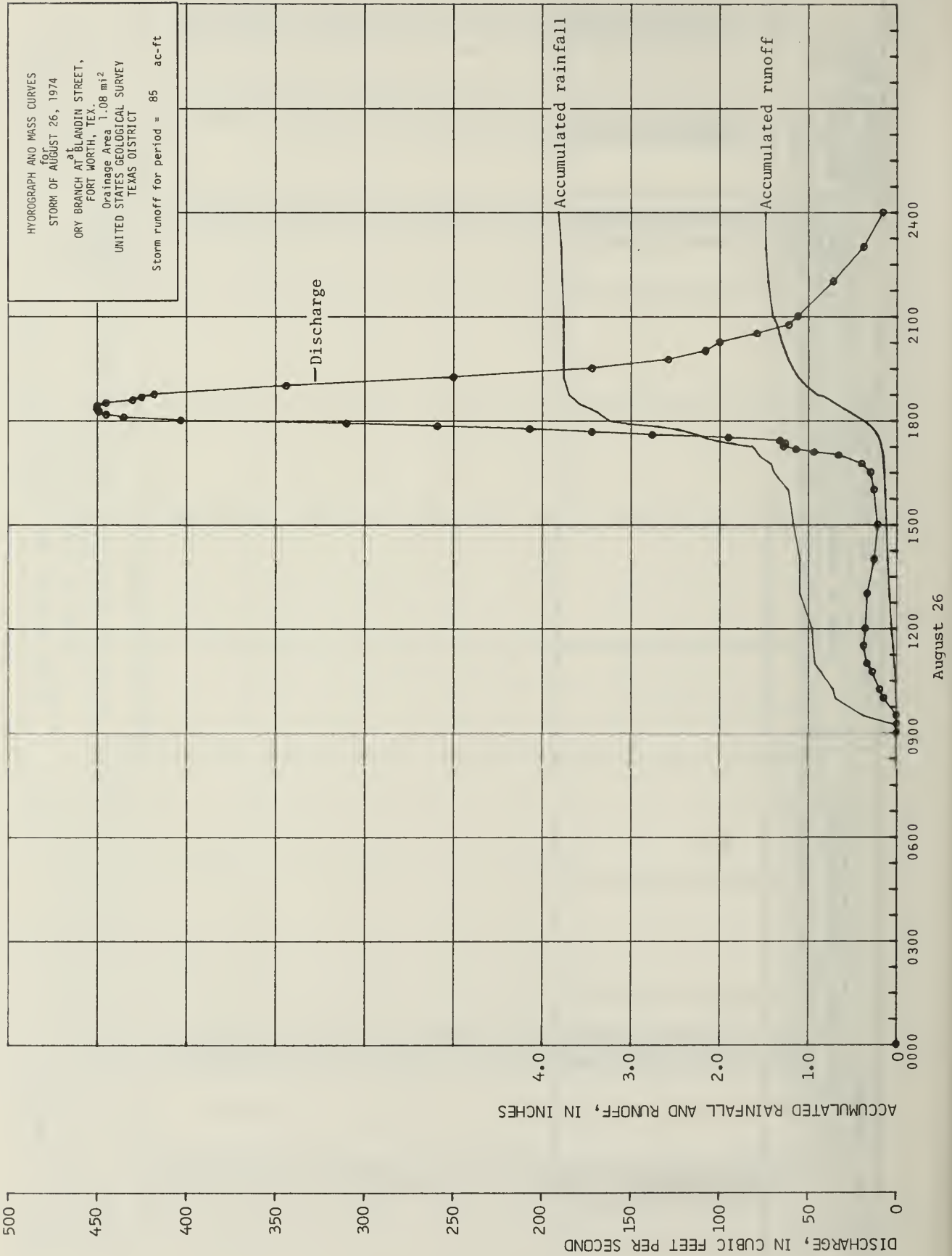
STORM RAINFALL AND RUNOFF RECORD									
STA. NO. 08048550		1974 WATER YEAR							
DRY BRANCH AT BLANDIN STREET, FORT WORTH, TEX.									
STORM OF OCTOBER 12-13, 1973									
DATE & TIME	1-DB	GAGE	NUMBER	PRECIP.	DISCHARGE	ACCUM.	FT ³ /S	IN.	IN.
OCT. 12									
0000	0.0			0.0	0.4	0.0051			
1745	0.0			0.0	0.4	0.0103			
1800	0.07			0.07	0.5	0.0105			
1830	0.08			0.08	2.1	0.0120			
1900	0.22			0.22	4.0	0.0142			
1915	0.24			0.24	4.5	0.0158			
1930	0.40			0.40	6.0	0.0180			
1945	0.68			0.68	14.0	0.0230			
2000	1.02			1.02	29.0	0.0334			
2015	1.20			1.20	27.0	0.0431			
2030	1.33			1.33	25.0	0.0520			
2045	1.36			1.36	24.0	0.0606			
2100	1.39			1.39	24.0	0.0692			
2115	1.45			1.45	43.0	0.0795			
2120	1.46			1.46	56.0	0.0862			
2125	1.48			1.48	77.0	0.0954			
2130	1.48			1.48	110.0	0.1086			
2135	1.48			1.48	148.0	0.1263			
2140	1.49			1.49	189.0	0.1489			
2145	1.49			1.49	217.0	0.1748			
2150	1.50			1.50	238.0	0.2033			
2155	1.50			1.50	249.0	0.2331			
2200	1.50			1.50	262.0	0.2644			
2205	1.51			1.51	264.0	0.2959			
2210	1.51			1.51	259.0	0.3269			
2215	1.51			1.51	253.0	0.3572			
2220	1.51			1.51	243.0	0.4007			
2230	1.51			1.51	218.0	0.4659			
2245	1.52			1.52	180.0	0.5305			
2300	1.53			1.53	153.0	0.5854			
2315	1.54			1.54	128.0	0.6313			
2330	1.55			1.55	103.0	0.6682			
2345	1.55			1.55	83.0	0.6980			
2400	1.55			1.55	68.0	0.7346			
OCT. 13									
0000	1.55			1.55	68.0	0.7346			
0100	1.55			1.55	36.0	0.8106			
0200	1.55			1.55	21.0	0.8558			
0400	1.63			1.63	11.0	0.8795			
0500	1.63			1.63	12.0	0.8967			

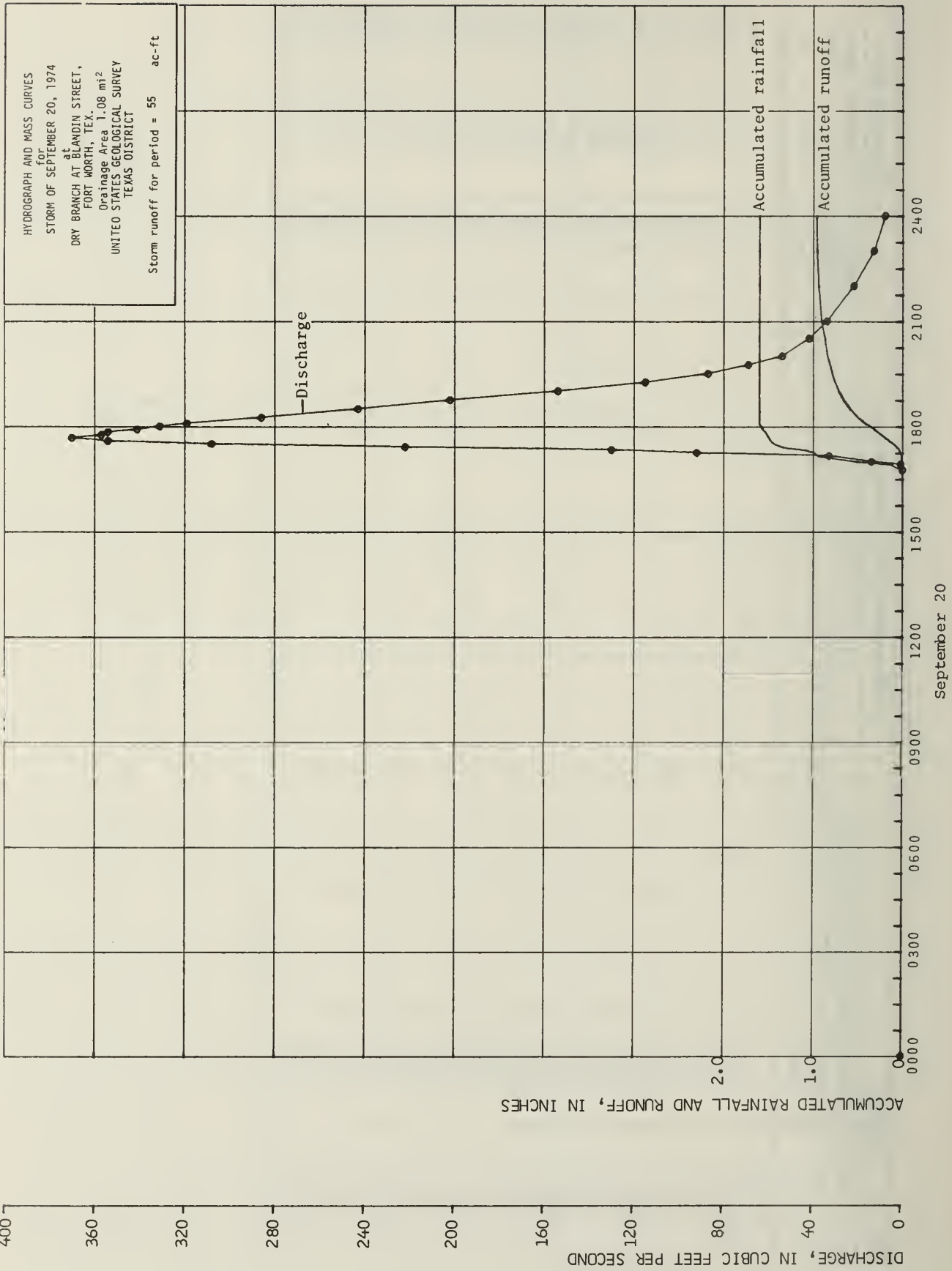
STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048550									
D-1 BRANCH AT BLANDIN STREET, FORT WORTH, TEX.									
STORM OF OCTOBER 12-13, 1973									
G A G E N U M B E R									
DATE & TIME									
1-D8									
OCT. 13									
0600									
0900									
1200									
1800									
2400									
1.65									
1.66									
1.68									
1.68									
1.68									
1.65									
1.66									
1.68									
1.68									
1.68									
8.0									
4.0									
2.0									
0.7									
0.6									
0.9197									
0.9369									
0.9498									
0.9558									
0.9584									



STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STATION NO. 08048550									
DRY BRANCH AT BLANDIN STREET, FORT WORTH, TEX.									
STORM OF AUGUST 26, 1974									
G A G E N U M B E R									
DATE & TIME									
1-DB									
AUG. 26									
PRECIP. IN.									
ACCUM. WEIGHTED PRECIP. IN.									
DISCHARGE IN									
FT ³ /S									
IN.									
0000	0.0						0.0	0.1	0.0006
0900	0.0						0.0	0.1	0.0013
0915	0.04						0.04	0.1	0.0013
0930	0.38						0.38	0.2	0.0015
1000	0.70						0.70	7.6	0.0055
1015	0.72						0.72	9.8	0.0108
1045	0.86						0.86	14.0	0.0183
1100	0.93						0.93	17.0	0.0275
1130	0.95						0.95	19.0	0.0411
1200	0.96						0.96	18.0	0.0605
1300	1.10						1.10	17.0	0.0849
1400	1.10						1.10	13.0	0.1035
1500	1.17						1.17	11.0	0.1193
1600	1.23						1.23	13.0	0.1333
1630	1.39						1.39	15.0	0.1414
1645	1.42						1.42	20.0	0.1486
1700	1.56						1.56	33.0	0.1564
1705	1.58						1.58	47.0	0.1621
1710	1.60						1.60	57.0	0.1689
1715	1.63						1.63	64.0	0.1765
1720	1.84						1.84	63.0	0.1841
1725	2.02						2.02	66.0	0.1920
1730	2.16						2.16	95.0	0.2033
1735	2.24						2.24	138.0	0.2198
1740	2.35						2.35	172.0	0.2404
1745	2.47						2.47	207.0	0.2651
1750	2.69						2.69	259.0	0.2961
1755	3.03						3.03	310.0	0.3332
1800	3.25						3.25	403.0	0.3814
1805	3.29						3.29	435.0	0.4334
1810	3.34						3.34	445.0	0.4866
1815	3.38						3.38	449.0	0.5403
1820	3.44						3.44	450.0	0.5941
1825	3.52						3.52	450.0	0.6479
1830	3.59						3.59	445.0	0.7011
1835	3.62						3.62	430.0	0.7525
1840	3.66						3.66	425.0	0.8033
1845	3.70						3.70	418.0	0.9033
1900	3.73						3.73	344.0	1.0267

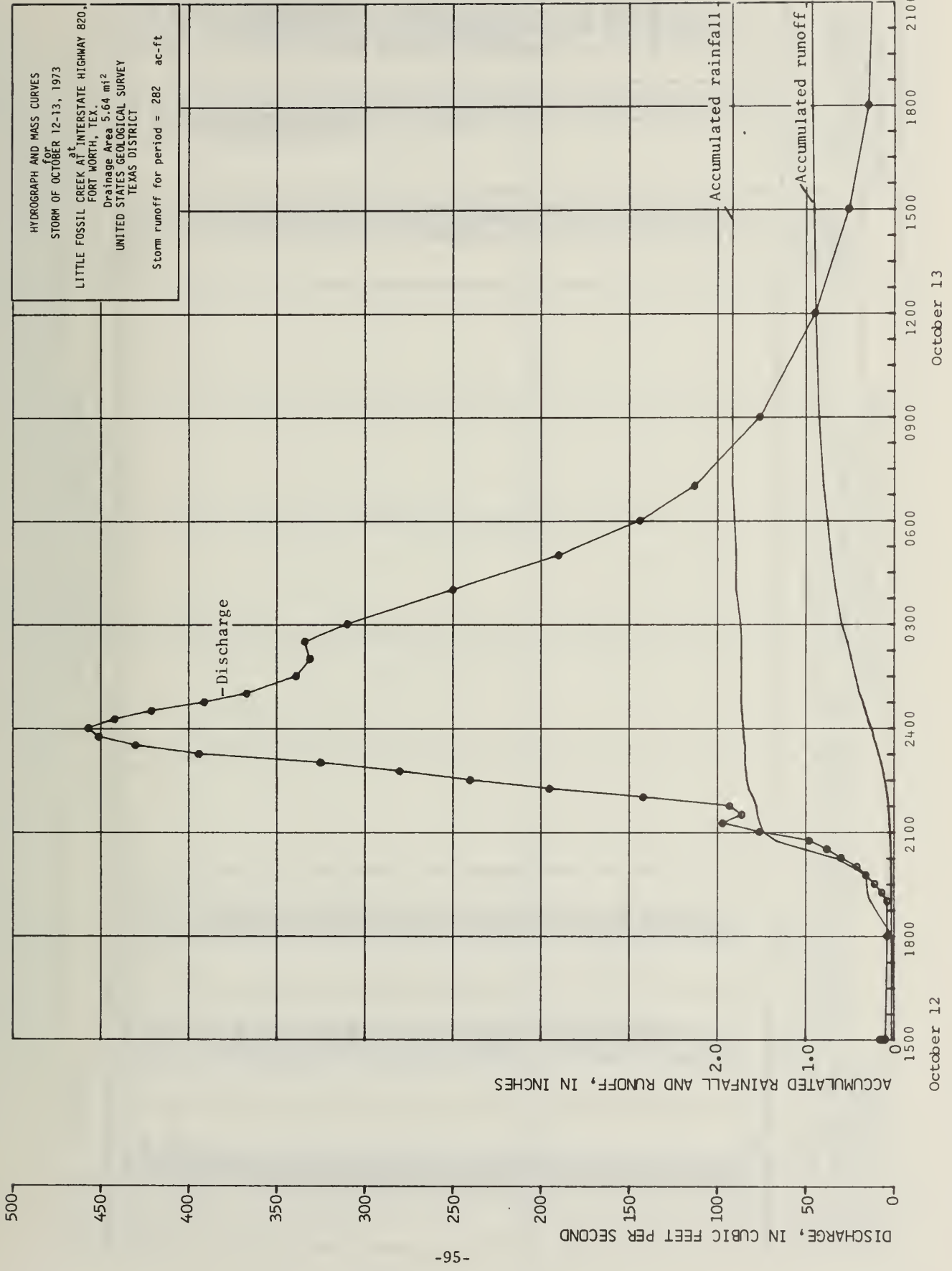
STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048550									
DRY BRANCH AT BLANDIN STREET, FORT WORTH, TEX.									
STORM OF AUGUST 26, 1974									
G A G E N U M B E R									
I - O B									
DATE & TIME	1-DB							PRECIP. IN.	DISCHARGE IN FT ³ /S IN.
AUG. 26									
1915	3.76						3.76	250.0	1.1163
1930	3.76						3.76	172.0	1.1780
1945	3.76						3.76	129.0	1.2243
2000	3.76						3.76	108.0	1.2630
2015	3.76						3.76	100.0	1.2989
2030	3.76						3.76	79.0	1.3272
2045	3.76						3.76	61.0	1.3491
2100	3.76						3.76	56.0	1.3993
2200	3.78						3.78	36.0	1.4510
2300	3.79						3.79	19.0	1.4783
2400	3.82						3.82	8.0	1.4840



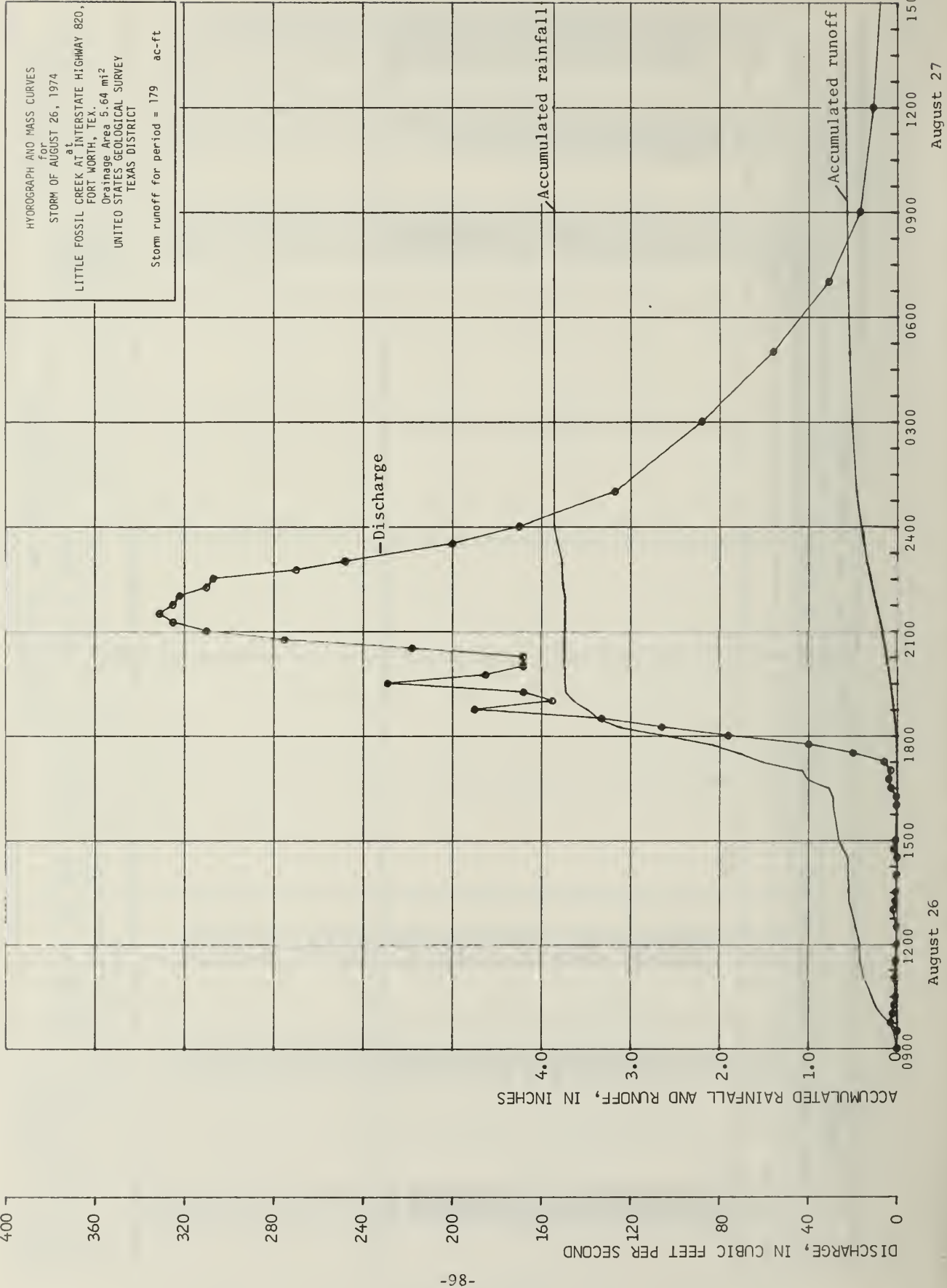


STORM RAINFALL AND RUNOFF RECORD											
1974 WATER YEAR											
STA. NO. 08048820											
LITTLE FOSSIL CREEK AT INTERSTATE HWY 820, FT WORTH, TEX STORM OF OCTOBER 12-13, 1973											
DATE & TIME	1-LF		2-LF		G A G E N U M B E R				ACCUM. WEIGHTED PRECIP. IN.	DISCHARGE IN FT ³ /S	ACCUM. RUNOFF IN.
OCT. 12											
0000	0.0	0.0						0.0	8.0	0.0033	
0300	0.0	0.0						0.0	7.0	0.0091	
0600	0.0	0.0						0.0	6.0	0.0165	
1200	0.0	0.0						0.0	5.0	0.0247	
1800	0.03	0.0						0.02	4.0	0.0286	
1900	0.31	0.15						0.27	4.0	0.0293	
1915	0.34	0.19						0.30	7.0	0.0297	
1930	0.35	0.19						0.31	11.0	0.0305	
1945	0.35	0.19						0.31	16.0	0.0316	
2000	0.51	0.36						0.47	21.0	0.0330	
2015	0.71	0.45						0.65	30.0	0.0351	
2030	1.08	0.72						0.99	38.0	0.0377	
2045	1.42	1.03						1.33	48.0	0.0410	
2100	1.56	1.21						1.48	76.0	0.0462	
2115	1.59	1.29						1.52	97.0	0.0529	
2130	1.61	1.34						1.55	86.0	0.0588	
2145	1.62	1.36						1.56	93.0	0.0652	
2200	1.66	1.39						1.60	142.0	0.0749	
2215	1.71	1.44						1.65	195.0	0.0883	
2230	1.73	1.47						1.67	240.0	0.1048	
2245	1.74	1.48						1.68	280.0	0.1240	
2300	1.75	1.49						1.69	325.0	0.1464	
2315	1.75	1.49						1.69	394.0	0.1734	
2330	1.75	1.49						1.69	430.0	0.2030	
2345	1.76	1.52						1.70	451.0	0.2339	
2400	1.76	1.54						1.71	457.0	0.2574	
OCT. 13											
0000	1.76	1.54						1.71	457.0	0.2574	
0015	1.77	1.54						1.71	442.0	0.2957	
0030	1.78	1.54						1.72	421.0	0.3246	
0045	1.79	1.54						1.73	391.0	0.3515	
0100	1.79	1.54						1.73	367.0	0.3893	
0130	1.79	1.54						1.73	339.0	0.4359	
0200	1.79	1.54						1.73	331.0	0.4813	
0230	1.79	1.54						1.73	334.0	0.5272	
0300	1.80	1.55						1.74	310.0	0.5911	
0400	1.85	1.61						1.79	250.0	0.6598	
0500	1.85	1.61						1.79	190.0	0.7120	
0600	1.87	1.62						1.81	144.0	0.7515	
0700	1.89	1.65						1.83	113.0	0.7981	

STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048820									
LITTLE FOSSIL CREEK AT INTERSTATE HWY 820, FT WORTH, TEX STORM OF OCTOBER 12-13, 1973									
DATE & TIME	G A G E		N U M B E R		PRECIP.		DISCHARGE		ACCUM. RUNOFF
	1-LF	2-LF			IN.	FT ³ /S	IN.		
OCT. 13									
0900	1.89	1.65			1.83	76.0		0.8503	
1200	1.89	1.65			1.83	45.0		0.8874	
1500	1.89	1.65			1.83	26.0		0.9088	
1800	1.89	1.65			1.83	15.0		0.9274	
2400	1.89	1.65			1.83	11.0		0.9364	



STORM RAINFALL AND RUNOFF RECORD									
STA. NO. 08048820									
LITTLE FOSSIL CREEK AT INTERSTATE HWY 820, FT WORTH, TEX STORM OF AUGUST 26, 1974									
DATE & TIME									
1-LF 2-LF									
G A G E N U M B E R									
PRECIP. IN.									
DISCHARGE IN									
ACCUM. WEIGHTED									
1974 WATER YEAR									
IN. FT ³ /S IN. ACCUM. RUNOFF									
AUG. 26									
0000	0.0	0.0						0.0	0.0
0900	0.0	0.0						0.0	0.0
0930	0.05	0.03						0.05	0.0
0945	0.10	0.06						0.09	0.0002
1000	0.20	0.14						0.19	0.0004
1015	0.27	0.19						0.25	0.0005
1030	0.30	0.25						0.29	0.0005
1100	0.38	0.34						0.37	0.0007
1130	0.42	0.41						0.42	0.0007
1200	0.43	0.41						0.43	0.0008
1230	0.48	0.45						0.47	0.0008
1300	0.52	0.52						0.52	0.0010
1315	0.55	0.54						0.55	0.0011
1330	0.55	0.54						0.55	0.0011
1400	0.56	0.56						0.56	0.0012
1430	0.56	0.56						0.56	0.0012
1445	0.63	0.56						0.61	0.0013
1500	0.67	0.64						0.66	0.0014
1600	0.74	0.69						0.73	0.0015
1615	0.74	0.69						0.73	0.0015
1630	0.80	0.69						0.77	0.0018
1645	1.06	0.86						1.01	0.0020
1700	1.10	0.98						1.07	0.0022
1715	1.65	1.08						1.51	0.0026
1730	1.88	1.42						1.77	0.0040
1745	2.20	1.68						2.08	0.0068
1800	2.77	1.93						2.57	0.0120
1815	3.40	2.21						3.11	0.0193
1830	3.57	2.67						3.35	0.0284
1845	3.67	2.86						3.48	0.0415
1900	3.82	3.04						3.63	0.0521
1915	3.85	3.33						3.73	0.0636
1930	3.86	3.35						3.74	0.0794
1945	3.86	3.35						3.74	0.0921
2000	3.86	3.35						3.74	0.1036
2015	3.86	3.35						3.74	0.1152
2030	3.86	3.35						3.74	0.1301
2045	3.86	3.35						3.74	0.1490
2100	3.86	3.35						3.74	0.1703



STORM RAINFALL AND RUNOFF RECORD									
1974 WATER YEAR									
STA. NO. 08048820									
LITTLE FOSSIL CREEK AT INTERSTATE HWY 820, FT WORTH, TEX STORM OF SEPTEMBER 20-21, 1974									
DATE & TIME									
PRECIP. IN.									
G A G E									
N U M B E R									
1-LF									
2-LF									
FT ³ /S									
IN.									
ACCUM. WEIGHTED									
DISCHARGE IN									
ACCUM. RUNOFF									
SEP. 20									
0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0035
1600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0063
1700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0065
1715	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0066
1730	0.0	0.0	0.03	0.03	0.03	0.03	0.01	1.8	0.0067
1745	0.11	0.30	0.39	0.39	0.39	0.39	0.16	13.0	0.0076
1800	0.93	1.39	2.18	2.18	2.18	2.18	1.04	71.0	0.0125
1815	1.50	2.28	2.36	2.36	2.36	2.36	1.66	367.0	0.0377
1830	1.55	2.37	2.37	2.37	2.37	2.37	1.73	682.0	0.0845
1845	1.56	2.37	2.37	2.37	2.37	2.37	1.75	914.0	0.1473
1900	1.56	2.37	2.37	2.37	2.37	2.37	1.75	646.0	0.1917
1915	1.56	2.37	2.37	2.37	2.37	2.37	1.75	478.0	0.2245
1930	1.56	2.37	2.37	2.37	2.37	2.37	1.75	421.0	0.2534
1945	1.56	2.37	2.37	2.37	2.37	2.37	1.75	403.0	0.2811
2000	1.56	2.37	2.37	2.37	2.37	2.37	1.75	355.0	0.3177
2030	1.56	2.37	2.37	2.37	2.37	2.37	1.75	319.0	0.3615
2100	1.57	2.38	2.40	2.40	2.40	2.40	1.76	352.0	0.4098
2130	1.58	2.40	2.40	2.40	2.40	2.40	1.78	382.0	0.4623
2200	1.58	2.40	2.40	2.40	2.40	2.40	1.78	361.0	0.5119
2230	1.58	2.40	2.40	2.40	2.40	2.40	1.78	334.0	0.5578
2300	1.58	2.40	2.40	2.40	2.40	2.40	1.78	313.0	0.6008
2330	1.58	2.40	2.40	2.40	2.40	2.40	1.78	292.0	0.6409
2400	1.58	2.40	2.40	2.40	2.40	2.40	1.78	260.0	0.6677
SEP. 21									
0000	1.58	2.40	2.40	2.40	2.40	2.40	1.78	260.0	0.6677
0030	1.58	2.40	2.40	2.40	2.40	2.40	1.78	210.0	0.7055
0100	1.58	2.40	2.40	2.40	2.40	2.40	1.78	172.0	0.7291
0130	1.58	2.40	2.40	2.40	2.40	2.40	1.78	146.0	0.7492
0200	1.58	2.40	2.40	2.40	2.40	2.40	1.78	117.0	0.7733
0300	1.62	2.41	2.42	2.42	2.42	2.42	1.81	88.0	0.7974
0400	1.64	2.42	2.42	2.42	2.42	2.42	1.83	64.0	0.8150
0500	1.64	2.42	2.42	2.42	2.42	2.42	1.83	48.0	0.8282
0600	1.64	2.43	2.44	2.44	2.44	2.44	1.83	36.0	0.8381
0700	1.65	2.44	2.44	2.44	2.44	2.44	1.84	27.0	0.8455
0800	1.65	2.44	2.44	2.44	2.44	2.44	1.84	20.0	0.8538
1000	1.65	2.44	2.44	2.44	2.44	2.44	1.84	14.0	0.8615
1200	1.65	2.44	2.44	2.44	2.44	2.44	1.84	9.0	0.8676
1500	1.65	2.44	2.44	2.44	2.44	2.44	1.84	4.8	0.8716
1800	1.65	2.44	2.44	2.44	2.44	2.44	1.84	2.5	0.8747
2400	1.65	2.44	2.44	2.44	2.44	2.44	1.84	1.5	0.8759

